SemEval-2022 Task 11: Multilingual Complex Named Entity Recognition (MultiCoNER)

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Abstract

We present the findings of SemEval-2022 Task 11 on Multilingual Complex Named Entity Recognition MULTICONER.¹ Divided into 13 tracks, the task focused on methods to identify complex named entities (like media titles, products, and groups) in 11 languages in both monolingual and multi-lingual scenarios. Eleven tracks were for building monolingual NER models for individual languages, one track focused on multilingual models able to work on all languages, and the last track featured code-mixed texts within any of these languages. The task used the MULTICONER dataset, composed of 2.3 million instances in Bangla, Chinese, Dutch, English, Farsi, German, Hindi, Korean, Russian, Spanish, and Turkish. Results showed that methods fusing external knowledge into transformer models achieved the best performance. The largest gains were on the Creative Work and Group entity classes, which are still challenging even with external knowledge. MULTICONER was one of the most popular tasks in SemEval-2022 and it attracted 377 participants during the practice phase. The final test phase had 236 participants, and 55 teams submitted their systems.

1 Introduction

Processing complex and ambiguous Named Entities (NEs) is a challenging NLP task in practical and open-domain settings but has not received sufficient attention from the research community. Complex NEs, like the titles of creative works (movie/book/song/software names) are not simple nouns and are harder to recognize (Ashwini and Choi, 2014). They can take the form of any linguistic constituent, like an imperative clause ("Dial M for Murder"), and do not look like traditional NEs (Person names, locations, organizations). This ambiguity makes it challenging to recognize them based on their context. Such titles can also be semantically ambiguous, e.g. "On the Beach" can be a preposition or refer to a movie.² Finally, such entities usually grow at a faster rate than traditional categories, and emerging entities pose yet another challenge.

Neural models (e.g. Transformers) have produced high scores on benchmark datasets like CoNLL03/OntoNotes (Devlin et al., 2018). However, as noted by Augenstein et al. (2017), these scores are driven by the use of well-formed news text, the presence of "easy" entities (e.g. person names), and memorization due to entity overlap between train/test sets; these models perform significantly worse on complex/unseen entities (Meng et al., 2021; Fetahu et al., 2021). Researchers using NER on downstream tasks have also noted that a significant proportion of their errors are due to NER systems failing to recognize complex entities (Luken et al., 2018; Hanselowski et al., 2018). Examples of such challenges are highlighted in Table 1.

For this task, we created the MULTICONER dataset (Malmasi et al., 2022) to address the aforementioned challenges. MULTICONER provides data from three domains (Wikipedia sentences, questions, and search queries) across 11 different languages, which are used to define 11 monolingual subsets of the shared task. Additionally, the dataset has multilingual and code-mixed subsets.

We received 1,884 submissions from 55 teams during the test phase and 34 system description papers were submitted. Results showed that usage of external data and ensemble strategies played a crucial role in the strong performance on in-domain data and also contributed to domain adaptation. External knowledge brought large improvements on classes containing names of creative works and groups, allowing these systems to achieve the best overall performance.

²https://www.imdb.com/title/tt0053137

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¹https://multiconer.github.io/

| Challenge | Description |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| Complex Entities | Not all entities are proper names: some types (e.g. creative works) can be linguistically com- |
| Relevant to all | plex. They can be complex noun phrases (Eternal Sunshine of the Spotless Mind), gerunds |
| domains | (Saving Private Ryan), infinitives (To Kill a Mockingbird), or full clauses (Mr.Smith Goes |
| | to Washington). Syntactic parsing of such nouns is hard, and most current parsers/NER systems |
| | fail to recognize them. The top system from WNUT 2017 achieved 8% recall for creative work |
| | entities (Aguilar et al., 2017). Effective evaluation requires corpora with many such entities. |
| Ambiguous Entities | Some NEs are ambiguous: they are not always entities, e.g. "Inside Out", "Among Us", and |
| and Contexts | "Bonanza" may refer to NEs (a movie, video game, and TV show) in some contexts, but not in |
| Particularly for voice | others. Such NEs often resemble regular syntactic constituents. News texts have long sentences |
| and search domains | discussing many entities, but other use cases (search queries, questions) have shorter inputs. Data |
| | with minimal context is needed to assess performance of such use cases. Capitalization/punctuation |
| | features are large drivers of success in NER (Mayhew et al., 2019), but short inputs (ASR, queries) |
| | often lack such surface features. An <u>uncased</u> evaluation is needed to assess model performance. |
| Emerging Entities | All entity types are open classes (new ones are added), but some groups have a faster growth rate, |
| For domains with | e.g. new books/songs/movies are released weekly resulting in a long-tail distribution. Assessing |
| growing entities | true generalization requires test sets with many unseen entities, to mimic an open-world setting. |

Table 1: Challenges not tackled by current work/datasets, but addressed by the MULTICONER task and data.

2 MultiCoNER Dataset

The MULTICONER dataset was designed to address the NER challenges described in §1. It represents three domains (wiki sentences, questions, and search queries) and includes 11 languages, plus multilingual and code-mixed subsets. For a detailed description of the MultiCoNER dataset, we refer the reader to the dataset paper (Malmasi et al., 2022). The dataset is publicly available.³

2.1 NER Taxonomy

MULTICONER leverages the WNUT 2017 (Derczynski et al., 2017a) taxonomy entity types, which defines the following NER tag-set with six classes:

- 1. PER: Names of people
- 2. LOC: Location or physical facilities
- 3. CORP: Corporations and businesses
- 4. GRP: All other groups
- 5. PROD: Consumer products
- 6. CW: Titles of creative works like movie, song, and book titles

This taxonomy allows us to capture a wide array of entities, including those with more complex entity structures, such as creative works.

2.2 Languages and Subsets

Eleven languages are included in MULTICONER:

- 1. Bangla (BN)
- 2. Chinese (ZH)
- 3. Dutch (NL)

- 4. English (EN)
- 5. Farsi (FA)
- 6. German (DE)
- 7. Hindi (HI)
- 8. Korean (KO)
- 9. Russian (RU)
- 10. Spanish (ES)
- 11. Turkish (TR)

These languages were chosen to include a diverse typology of languages and writing systems, and range from well-resourced (EN) to low-resourced ones (FA).

MULTICONER contains 13 different subsets: 11 monolingual subsets for the above languages, a multilingual subset (denoted as MULTI), and a code-mixed one (MIX).

Monolingual Subsets Each of the 11 languages has its own subset, which includes data from all three domains.

Multilingual Subset This contains randomly sampled data from all the languages mixed into a single subset. This subset is designed for evaluating multilingual models, and should ideally be used under the assumption that the language for each sentence is unknown.

Code-mixed Subset This subset contains codemixed instances, where the entity is from one language and the rest of the text is written in another language. Like the multilingual subset, this subset should also be used under the assumption that the languages present in an instance are unknown.

³https://registry.opendata.aws/ multiconer

| Class | Split | EN | DE | ES | RU | NL | ко | FA | ZH | HI | TR | BN | MULTI | MIX |
|------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Train | 5,397 | 5,288 | 4,706 | 3,683 | 4,408 | 4,536 | 4,270 | 2,225 | 2,418 | 4,414 | 2,606 | 43,951 | 296 |
| PER | Dev | 290 | 296 | 247 | 192 | 212 | 267 | 201 | 129 | 133 | 231 | 144 | 2,342 | 96 |
| | Test | 55,682 | 55,757 | 51,497 | 44,687 | 49,042 | 39,237 | 35,140 | 26,382 | 25,351 | 26,876 | 24,601 | 111,346 | 19,313 |
| | Train | 4,799 | 4,778 | 4,968 | 4,219 | 5,529 | 6,299 | 5,683 | 6,986 | 2,614 | 5,804 | 2,351 | 54,030 | 325 |
| LOC | Dev | 234 | 296 | 274 | 221 | 299 | 323 | 324 | 378 | 131 | 351 | 101 | 2,932 | 108 |
| | Test | 59,082 | 59,231 | 58,742 | 54,945 | 63,317 | 52,573 | 45,043 | 43,289 | 31,546 | 34,609 | 29,628 | 141,013 | 23,111 |
| | Train | 3,571 | 3,509 | 3,226 | 2,976 | 3,306 | 3,530 | 3,199 | 713 | 2,843 | 3,568 | 2,405 | 32,846 | 248 |
| GRP | Dev | 190 | 160 | 168 | 151 | 163 | 183 | 164 | 26 | 148 | 167 | 118 | 1,638 | 75 |
| | Test | 41,156 | 40,689 | 38,395 | 37,621 | 39,255 | 31,423 | 27,487 | 18,983 | 22,136 | 21,951 | 19,177 | 77,328 | 16,357 |
| | Train | 3,111 | 3,083 | 2,898 | 2,817 | 2,813 | 3,313 | 2,991 | 3,805 | 2,700 | 2,761 | 2,598 | 32,890 | 294 |
| CORP | Dev | 193 | 165 | 141 | 159 | 163 | 156 | 160 | 192 | 134 | 148 | 127 | 1,738 | 112 |
| | Test | 37,435 | 37,686 | 36,769 | 35,725 | 35,998 | 30,417 | 27,091 | 25,758 | 21,713 | 21,137 | 20,066 | 75,764 | 18,478 |
| | Train | 3,752 | 3,507 | 3,690 | 3,224 | 3,340 | 3,883 | 3,693 | 5,248 | 2,304 | 3,574 | 2,157 | 38,372 | 298 |
| CW | Dev | 176 | 189 | 192 | 168 | 182 | 196 | 207 | 282 | 113 | 190 | 120 | 2,015 | 102 |
| | Test | 42,781 | 42,133 | 43,563 | 39,947 | 41,366 | 33,880 | 30,822 | 30,713 | 21,781 | 23,408 | 21,280 | 89,273 | 20,313 |
| | Train | 2,923 | 2,961 | 3,040 | 2,921 | 2,935 | 3,082 | 2,955 | 4,854 | 3,077 | 3,184 | 3,188 | 35,120 | 316 |
| PROD | Dev | 147 | 133 | 154 | 151 | 138 | 177 | 157 | 274 | 169 | 158 | 190 | 1,848 | 117 |
| | Test | 36,786 | 36,483 | 36,782 | 36,533 | 36,964 | 29,751 | 26,590 | 28,058 | 22,393 | 21,388 | 20,878 | 75,871 | 20,255 |
| | Train | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 15,300 | 168,300 | 1,500 |
| #sentences | Dev | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 8,800 | 500 |
| | Test | 217,818 | 217,824 | 217,887 | 217,501 | 217,337 | 178,249 | 165,702 | 151,661 | 141,565 | 136,935 | 133,119 | 471,911 | 100,000 |

Table 2: MULTICONER dataset statistics for the different languages for the Train/Dev/Test splits. For each NER class we show the total number of entity instances per class on the different data splits. The bottom three rows show the total number of sentences for each language.

2.3 Dataset Creation

The MultiCoNER dataset consists of 11 languages, and three domains (encyclopedia sentences, questions from QA, and Web queries). A detailed overview of the MultiCoNER dataset is provided in the dataset paper (Malmasi et al., 2022).

LOWNER: represents the encyclopedic sentences extracted from the different localized versions of Wikipedia. We select low-context sentences and the *interlinked* entities are resolved to the *entity types* using Wikidata as a reference, according to the NER class taxonomy from (Derczynski et al., 2017b). Manual inspection of 400 sampled English sentences shows that the NER gold labels are 94% accurate.

MSQ-NER: from the MS-MARCO Q&A corpus (Bajaj et al., 2016) *question templates* are extracted by replacing the *entities* with their NER *type* (from the MultiCoNER NER taxonomy). Entities in a question are identified using spaCy.⁴ The templates are translated from English into the rest of the languages.

ORCAS-NER: similar of MSQ-NER, templates from Web user queries are extracted from the OR-CAS dataset (Craswell et al., 2020). The templates are translated into the respective languages, and finally, multiple instances are constructed from each template by simply replacing the template slots with actual named entities in the target languages.

⁴https://spacy.io/

2.4 Dataset Statistics

Table 2 shows some statistics of the dataset. For all the tracks, we have released 15,300 training and 800 development instances. In the training splits, the absolute majority of instances are from the Wikipedia domain (i.e. LOWNER), whereas a small number of 100 instances are domain-adaptation data, with 50 instances coming from the Web Questions (i.e. MSQ-NER) and Web Query (i.e. ORCAS-NER) domains, respectively.

The test splits on the other hand are much larger. This is done for mainly two reasons: (1) to be able to assess the generalizability of NER models on unseen and complex entities, and (2) to assess the cross-domain adaptation performance of NER models. For practical reasons, we cap the number of test instances to be at a maximum of 200k per subset, with the exception of the Code-Mixed and Multilingual subsets. The Multilingual test split was generated from the language-specific test splits and was downsampled to contain only 471k instances. On the other hand, for the Code-Mixed subset, we sample test sentences from the language-specific test split, and replace the original entity surface forms with the surface form of the entity in another language, picked at random.

More details on the dataset construction process are available in Malmasi et al. (2022).

3 Task Description and Evaluation

The shared task is composed of 11 monolingual and 2 multilingual tracks. The monolingual tracks invited participants to build monolingual models for 11 languages addressed by the shared task. The multilingual track invited multilingual models capable of identifying entities from monolingual texts from any of the 11 languages. The code-mixed track called for models to identify entities in mixedlanguage texts (any language pair from the 11 languages). That means the multilingual models for multilingual and code mixed tracks should be able to process texts from any language and show competitive performance for all the languages.

We used the macro-averaged F1 scores to evaluate and rank systems. Additionally, we report precision, recall, and per-domain performance.

4 Baseline System

We train and evaluate a baseline NER system using on XLM-RoBERTa (XLM-R) (Conneau et al., 2020), a multilingual Transformer model. The XLM-R model computes a representation for each token, which is then used to predict the token tag using a CRF classification layer (Sutton et al., 2012).

The XLM-R baseline is highly suited for multilingual application scenarios, such as our. It supports up to 100 languages and provides a solid baseline upon which the participants can build. The baseline was trained with a learning rate of 2e - 5and a maximum number of 50 epochs, with an early stopping criterion of a non-decreasing validation loss for 5 epochs. The code and scripts for the baseline system were provided to the participants to use its functionalities and further extend it with their approaches.⁵

5 Participating Systems and Results

We have received submissions from 55 different teams. Among the monolingual tracks, we have observed the highest participation of 30 teams in the English track. Ordered by the number of participating teams, the other monolingual tracks are Chinese (21), Bangla (18), Spanish (18), Hindi (17), Korean (17), German (16), Dutch (15), Farsi (15), Turkish (15), and Russian (14). The number of participating teams for the Multilingual and Code-mixed tracks are 25 Most of the top-performing teams aimed at building their system targeting the multilingual track, and then retrained it for the other tracks separately and made submissions to all the 13 tracks. Therefore, in the rest of this section, we will first discuss the approaches by focusing on the multilingual track. Then, we will discuss teams that built their systems for one or more monolingual tracks. Finally, we will summarize the methods (e.g. language models, toolkits) and resources used.

5.1 Top Multilingual Systems

DAMO-NLP (Wang et al., 2022) ranked 1^{st} in the multilingual (MULTI) track and all the monolingual tracks except BN (2^{nd}) and ZH (4^{th}) . Given a text, they used a knowledge retrieval module to retrieve K most relevant paragraphs from a knowledge base (i.e. Wikipedia). Paragraphs were concatenated together with the input, and token representations were passed through a CRF to predict the labels. They employed multiple such XLM-RoBERTa models with random seeds and then used a voting strategy to make the final prediction.

USTC-NELSLIP (Chen et al., 2022a) ranked 1^{st} in three tracks (MIX, ZH, BN), and 2^{nd} for all the other tracks. The average performance gap between USTC-NELSLIP and DAMO-NLP is $\approx 3\%$ for all the 13 tracks. USTC-NELSLIP aimed at fine-tuning a Gazetteer enhanced BiLSTM network in such a way that the representation produced for an entity has similarity with the representation produced by a pre-trained language model (LM). They developed a two-step process with two parallel networks, where a Gazetteer-BiLSTM uses a Gazetteer search to produce one-hot labels for each token in a given text and a BiLSTM produces a dense vector representation for each token. Another network uses a frozen XLM-RoBERTa to produce an embedding vector for each token. A KL divergence loss is applied to make the Gazetteer network's output similar to the LM. These two networks are jointly trained together again and their outputs are fused together for the final prediction.

QTrade AI (Gan et al., 2022) ranked 3^{rd} in MULTI, 4^{th} in MIX, and 8^{th} in ZH. They used an XLM-RoBERTa encoder and applied sample mixing for data augmentation, along with adversarial training through data noising. For the multilingual

⁵https://github.com/amzn/multiconer-baseline

| | English (EN) |) | 16 | Sartipi-Sedighin | 0.584 | 14 | CSECU-DSG | 0.558 | 4 | RACAI | 0.663 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Team | F1 | | Russian (RU | / | 15 | BASELINE | 0.522 | 5 | Infrrd.ai | 0.64 |
| 1 | DAMO-NLP | 0.912 | | Team | F1 | 16 | B.E.P. | 0.513 | 6 | YNUNLP | 0.638 |
| 2 | USTC-NELSLIP | 0.855 | 1 | DAMO-NLP | 0.915 | | German (DE |) | 7 | Sliced | 0.63 |
| 3 | PAI | 0.784 | 2 | USTC-NELSLIP | 0.838 | | Team | F1 | 8 | Team Atreides | 0.598 |
| 4 | ML-HUB | 0.781 | 3 | RACAI | 0.746 | 1 | DAMO-NLP | 0.906 | 9 | brotherhood | 0.586 |
| 5 | RACAI | 0.758 | 4 | Sliced | 0.737 | 2 | USTC-NELSLIP | 0.89 | 10 | MaChAmp | 0.565 |
| 6 | Infrrd.ai | 0.747 | 5 | YNUNLP | 0.73 | 3 | RACAI | 0.794 | 11 | MarSan | 0.542 |
| 7 | EURECOM | 0.746 | 6 | MaChAmp | 0.724 | 4 | Sliced | 0.789 | 12 | EURECOM | 0.526 |
| 8 | Sliced | 0.745 | 7 | brotherhood | 0.703 | 5 | MaChAmp | 0.784 | 13 | AaltoNLP | 0.518 |
| 9 | MaChAmp | 0.745 | 89 | NetEase.AI | 0.698 | 6 7 | YNUNLP | 0.773 | 14 | silpa_nlp | 0.514 |
| 10 | Raccoons YNUNLP | 0.742 0.732 | 10 | EURECOM MarSan | 0.682 0.675 | 8 | L3i ML-HUB | 0.772 0.761 | 15 16 | CSECU-DSG B.E.P. | 0.505 0.451 |
| 12 | LMN | 0.732 | 11 | L3i | 0.667 | 9 | brotherhood | 0.759 | 17 | L3i | 0.431 |
| 12 | brotherhood | 0.723 | 12 | CSECU-DSG | 0.631 | 10 | Infrrd.ai | 0.759 | 17 | Enigma | 0.448 |
| 14 | L3i | 0.72 | 13 | B.E.P. | 0.6 | 11 | EURECOM | 0.744 | 19 | BASELINE | 0.394 |
| 15 | Multilinguals | 0.717 | 14 | BASELINE | 0.596 | 12 | MarSan | 0.731 | | ultilingual (M | |
| 16 | KDDIE | 0.717 | 15 | AutoNER | 0.527 | 13 | CSECU-DSG | 0.725 | | Team | F1 |
| 17 | MarSan | 0.715 | | Turkish (TR | | 14 | AaltoNLP | 0.714 | 1 | DAMO-NLP | 0.853 |
| 18 | Cardiff NLP | 0.709 | | Team | | 15 | PA Ph&Tech | 0.667 | 2 | USTC-NELSLIP | 0.853 |
| 19 | Lone Wolf | 0.698 | 1 | DAMO-NLP | 0.887 | 16 | B.E.P. | 0.666 | 3 | OTrade AI | 0.777 |
| 20 | MIDAS | 0.696 | 2 | USTC-NELSLIP | 0.855 | 17 | BASELINE | 0.637 | 4 | SeqL | 0.755 |
| 21 | UC3M-PUCPR | 0.692 | 3 | SU-NLP | 0.72 | | Chinese (ZH |) | 5 | CMB AI Lab | 0.737 |
| 22 | CSECU-DSG | 0.692 | 4 | RACAI | 0.704 | | Team | F1 | 6 | UM6P-CS | 0.725 |
| 23 | Sartipi-Sedighin | 0.675 | 5 | Sliced | 0.688 | 1 | USTC-NELSLIP | 0.817 | 7 | RACAI | 0.721 |
| 24 | Enigma | 0.672 | 6 | MaChAmp | 0.676 | 2 | CASIA | 0.797 | 8 | Cardiff NLP | 0.717 |
| 25 | DANGNT-SGU | 0.669 | 7 | YNUNLP | 0.668 | 3 | OPDAI | 0.795 | 9 | Sliced | 0.711 |
| 26 | AaltoNLP | 0.668 | 8 | ML-HUB | 0.658 | 4 | DAMO-NLP | 0.781 | 10 | IIE_KDSEC | 0.709 |
| 27 | SPDB I.L. | 0.651 | 9 | L3i | 0.643 | 5 | NetEase.AI | 0.778 | 11 | B.E.P. | 0.707 |
| 28 | silpa_nlp | 0.634 | 10 | MarSan | 0.611 | 6 | CMB AI Lab | 0.764 | 12 | OPDAI | 0.695 |
| 29 | B.E.P. | 0.632 | 11 | brotherhood | 0.597 | 7 | NCUEE-NLP | 0.742 | 13 | brotherhood | 0.694 |
| 30 | BASELINE | 0.614 | 12 | EURECOM | 0.566 | 8 | QTrade AI | 0.74 | 14 | MarSan | 0.693 |
| 31 | AutoNER | 0.557 | 13 | CSECU-DSG | 0.553 | 9 | CSECU-DSG | 0.672 | 15 | Infrrd.ai | 0.692 |
| | Spanish (ES Team |) F1 | 14 15 | Sartipi-Sedighin BASELINE | 0.527 0.463 | 10 11 | Multilinguals L3i | 0.669 0.669 | 16 17 | HaveNoIdea | 0.688 |
| 1 | DAMO-NLP | гт 0.899 | 16 | B.E.P. | 0.403 | | | | 17 | EURECOM MaChAmp | 0.681 0.677 |
| | | | | | | | | | | | |
| | | | 10 | | | 12 13 | Sliced Infrrd ai | 0.652 0.647 | | | |
| 23 | USTC-NELSLIP RACAI | 0.899 0.854 0.756 | 10 | Korean (KO) Team | | 12 13 14 | Siicea Infrrd.ai MaChAmp | 0.652 0.647 0.638 | 18 19 20 | YNUNLP DS4DH | 0.668 0.652 |
| 2 | USTC-NELSLIP | 0.854 | 10 | Korean (KO) |) | 13 | Infrrd.ai | 0.647 | 19 | YNUNLP | 0.668 |
| 2 3 | USTC-NELSLIP RACAI | 0.854 0.756 | | Korean (KO) Team |) F1 | 13 14 | Infrrd.ai MaChAmp | 0.647 0.638 | 19 20 | YNUNLP DS4DH | 0.668 0.652 |
| 2 3 4 | USTC-NELSLIP RACAI Infrrd.ai | 0.854 0.756 0.753 | 1 | Korean (KO) Team DAMO-NLP | F1 0.886 | 13 14 15 | Infrrd.ai MaChAmp EURECOM | 0.647 0.638 0.634 | 19 20 21 | YNUNLP DS4DH UPB | 0.668 0.652 0.647 |
| 2 3 4 5 6 7 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp | 0.854 0.756 0.753 0.752 | 1 2 3 4 | Korean (KO) Team DAMO-NLP USTC-NELSLIP | F1 0.886 0.864 | 13 14 15 16 | Infrrd.ai MaChAmp EURECOM RACAI | 0.647 0.638 0.634 0.627 | 19 20 21 22 | YNUNLP DS4DH UPB CSECU-DSG | 0.668 0.652 0.647 0.644 |
| 2 3 4 5 6 7 8 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 | 1 2 3 4 5 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI | F1 0.886 0.864 0.717 0.707 0.707 | 13 14 15 16 17 18 19 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 | 19 20 21 22 23 24 25 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 |
| 2 3 4 5 6 7 8 9 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 | 1 2 3 4 5 6 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP | F1 0.886 0.864 0.717 0.707 0.707 0.703 | 13 14 15 16 17 18 19 20 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 |
| 2 3 4 5 6 7 8 9 10 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 | 1 2 3 4 5 6 7 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 | 13 14 15 16 17 18 19 20 21 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. | $\begin{array}{c} 0.647 \\ 0.638 \\ 0.634 \\ 0.627 \\ 0.614 \\ 0.609 \\ 0.566 \\ 0.557 \\ 0.528 \end{array}$ | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 |
| 2 3 4 5 6 7 8 9 10 11 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 | 1 2 3 4 5 6 7 8 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 | 13 14 15 16 17 18 19 20 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 (11X) F1 |
| 2 3 4 5 6 7 8 9 10 11 12 | USTC-NELSLIP RACAI Infrtd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 | 1 2 3 4 5 6 7 8 9 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.674 | 13 14 15 16 17 18 19 20 21 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE HINDI (HII) | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 (11X) F1 0.929 |
| 2 3 4 5 6 7 8 9 10 11 12 13 | USTC-NELSLIP RACAI Infrtd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 | 1 2 3 4 5 6 7 8 9 10 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.675 0.674 0.673 | 13 14 15 16 17 18 19 20 21 22 | Infrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE HINDI (HII) Team | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 41X) F1 0.929 0.918 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM | $\begin{array}{c} 0.854\\ 0.756\\ 0.753\\ 0.752\\ 0.751\\ 0.732\\ 0.707\\ 0.689\\ 0.689\\ 0.683\\ 0.673\\ 0.656\\ 0.628\\ \end{array}$ | 1 2 3 4 5 6 7 8 9 10 11 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.675 0.674 0.673 0.654 | 13 14 15 16 17 18 19 20 21 22 1 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 | 19 20 21 22 23 24 25 26 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 41X) F1 0.929 0.918 0.846 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 | 1 2 3 4 5 6 7 8 9 10 11 12 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.675 0.674 0.654 0.654 | 13 14 15 16 17 18 19 20 21 22 1 22 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 | 19 20 21 22 23 24 25 26 1 2 3 4 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI | 0.668 0.652 0.647 0.644 0.642 0.642 0.612 0.478 41X) FI 0.929 0.918 0.846 0.844 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 | 1 2 3 4 5 6 7 8 9 10 11 12 13 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.653 0.654 0.65 0.627 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP RACAI | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 | 19 20 21 22 23 24 25 26 1 2 3 4 5 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL | 0.668 0.652 0.647 0.644 0.642 0.642 0.612 0.478 f1 0.929 0.918 0.846 0.844 0.803 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.654 0.654 0.654 | 13 14 15 16 17 18 19 20 21 22 1 22 1 22 3 4 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP RACAI Sliced | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 F1 0.862 0.846 0.681 0.67 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC | 0.668 0.652 0.647 0.644 0.642 0.632 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 | 1 2 3 4 5 6 7 8 9 10 11 12 13 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.653 0.654 0.65 0.627 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP RACAI | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.528 0.846 0.862 0.846 0.681 0.67 0.666 | 19 20 21 22 23 24 25 26 1 2 3 4 5 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI | 0.668 0.652 0.647 0.644 0.642 0.632 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.654 0.65 0.627 0.623 0.621 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 3 4 5 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 F1 0.862 0.846 0.681 0.67 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC | 0.668 0.652 0.647 0.644 0.642 0.632 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.65 0.654 0.65 0.627 0.623 0.621 0.618 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 1 22 3 4 5 6 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE IMINI (HII) Team DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.528 0.862 0.846 0.881 0.67 0.666 0.657 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (1) Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS | 0.668 0.652 0.647 0.644 0.642 0.632 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR Dutch (NL) | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.657 0.654 0.65 0.627 0.623 0.621 0.618 0.59 | 13 14 15 16 17 18 19 20 21 22 1 22 1 22 1 2 2 3 4 5 6 7 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE BASELINE Team DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 (IX) F1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.776 |
| 2 3 4 5 6 7 8 9 10 11 12 3 3 14 15 16 17 18 19 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR Team | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.668 0.622 0.607 0.601 0.578 0.568 F1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrtd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.657 0.654 0.65 0.627 0.623 0.621 0.618 0.59 | 13 14 15 16 17 18 19 20 21 22 1 22 1 22 1 2 2 3 4 5 6 7 8 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE BASELINE DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood YNUNLP | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 (1X) F1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.776 0.775 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR DAUCh (NL) Team DAMO-NLP USTC-NELSLIP RACAI | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.668 0.628 0.622 0.607 0.601 0.578 0.568 F1 0.905 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.675 0.674 0.653 0.654 0.627 0.623 0.621 0.623 0.621 0.618 0.59 0.552 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 3 4 5 6 7 8 9 10 11 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. BASELINE BASELINE DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood | 0.668 0.652 0.647 0.644 0.642 0.632 0.612 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.776 0.775 0.768 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR DAUCOR Team DAMO-NLP USTC-NELSLIP RACAI Sliced | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.601 0.578 0.905 0.877 0.905 0.877 0.784 0.777 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.674 0.673 0.654 0.654 0.65 0.627 0.623 0.621 0.618 0.59 0.559 0.559 0.559 | 13 14 15 16 17 18 19 20 21 22 21 22 1 22 3 4 5 6 7 8 9 10 11 12 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. BASELINE BASELINE BASELINE DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 0.617 0.577 0.563 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp | 0.668 0.652 0.647 0.644 0.642 0.612 0.478 XIX) FI 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.775 0.768 0.764 0.759 0.745 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR UC3M-PUCPR Dutch (NL) Team DAMO-NLP USTC-NELSLIP RACAI Sliced MaChAmp | 0.854 0.756 0.753 0.752 0.751 0.732 0.777 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.578 0.578 0.905 0.877 0.784 0.777 0.77 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP RACAI | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.675 0.674 0.653 0.654 0.65 0.627 0.623 0.621 0.618 0.59 0.552 F1 0.897 0.871 0.704 | 13 14 15 16 17 18 19 20 21 22 1 22 3 4 5 6 7 8 9 10 11 12 13 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. BASELINE BASELINE MIDDI (HII) Team DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan EURECOM | 0.647 0.638 0.634 0.627 0.614 0.609 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 0.617 0.577 0.563 0.528 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp Sliced | 0.668 0.652 0.647 0.644 0.642 0.612 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.775 0.768 0.764 0.759 0.745 0.727 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 6 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR DatCh (NL) Team DAMO-NLP USTC-NELSLIP RACAI Sliced MaChAmp Infrrd.ai | 0.854 0.756 0.753 0.752 0.751 0.732 0.777 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 F1 0.905 0.877 0.784 0.777 0.784 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP RACAI Sliced | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.674 0.654 0.653 0.621 0.618 0.59 0.8897 0.8971 0.704 0.687 | 13 14 15 16 17 18 19 20 21 22 1 22 3 4 5 6 7 8 9 10 11 12 13 14 | Infrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Hindi (HI) Team DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan EURECOM silpa_nlp | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 F1 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 0.617 0.577 0.563 0.528 0.515 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp Sliced CMNEROne | 0.668 0.652 0.647 0.644 0.642 0.642 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.775 0.768 0.759 0.755 0.764 0.759 0.727 0.704 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 6 7 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR DatCh (NL) Team DAMO-NLP USTC-NELSLIP RACAI Sliced MaChAmp Infrrd.ai | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 F1 0.905 0.877 0.784 0.777 0.784 0.777 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 5 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP RACAI Sliced YNUNLP | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.674 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.655 0.627 0.623 0.621 0.618 0.59 0.52 F1 0.897 0.871 0.704 0.687 0.672 | 13 14 15 16 17 18 19 20 21 22 1 22 3 4 5 6 7 8 9 10 11 12 13 14 15 | Infrrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE DAMO-NLP USTC-NELSLIP RACAI Sliced NetEase.AI Infrrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan EURECOM silpa_nlp B.E.P. | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 0.617 0.577 0.563 0.528 0.515 0.499 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp Sliced CMNEROne L3i | 0.668 0.652 0.647 0.644 0.642 0.612 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.776 0.776 0.768 0.768 0.745 0.727 0.704 0.687 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 6 7 8 | USTC-NELSLIP RACAI Infrrd.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR BASELINE UC3M-PUCPR Dutch (NL) Team DAMO-NLP USTC-NELSLIP RACAI Sliced MaChAmp Infrrd.ai YNUNLP | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 F1 0.905 0.877 0.784 0.777 0.764 0.778 0.73 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 5 6 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP RACAI Sliced YNUNLP brotherhood | F1 0.886 0.864 0.717 0.707 0.703 0.675 0.675 0.674 0.654 0.654 0.654 0.654 0.654 0.654 0.654 0.655 0.627 0.623 0.621 0.618 0.59 0.552 F1 0.897 0.871 0.704 0.672 0.672 0.657 | 13 14 15 16 17 18 19 20 21 22 1 22 1 22 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Infrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Team DAMO-NLP USTC-NELSLIP RACAI Sliced NotEase.AI Infrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan EURECOM silpa_nlp B.E.P. L3i | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.513 0.862 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.634 0.634 0.634 0.677 0.563 0.528 0.515 0.528 0.515 0.499 0.497 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 101 12 13 14 15 16 17 18 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp Sliced CMNEROne L3i Cardiff NLP | 0.668 0.652 0.647 0.644 0.642 0.612 0.478 f1 0.929 0.918 0.846 0.844 0.803 0.796 0.794 0.792 0.776 0.775 0.768 0.775 0.764 0.727 0.704 0.687 0.681 |
| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4 5 6 7 8 9 9 | USTC-NELSLIP RACAI Infrid.ai MaChAmp Sliced YNUNLP brotherhood L3i PA Ph&Tech MarSan SPDB I.L. CSECU-DSG EURECOM Multilinguals Sartipi-Sedighin B.E.P. BASELINE UC3M-PUCPR DUtCh (NL) Team DAMO-NLP USTC-NELSLIP RACAI Sliced MaChAmp Infrid.ai YNUNLP brotherhood PA Ph&Tech | 0.854 0.756 0.753 0.752 0.751 0.732 0.707 0.689 0.683 0.673 0.656 0.628 0.612 0.607 0.601 0.578 0.568 F1 0.905 0.877 0.784 0.777 0.774 0.774 0.7758 0.73 0.721 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1 2 3 4 5 6 7 | Korean (KO) Team DAMO-NLP USTC-NELSLIP RACAI CMB AI Lab Sliced YNUNLP C-3PO UA-KO brotherhood Infrrd.ai MaChAmp EURECOM L3i MarSan CSECU-DSG AaltoNLP B.E.P. BASELINE Farsi (FA) Team DAMO-NLP USTC-NELSLIP RACAI Sliced YNUNLP brotherhood C-3PO | F1 0.886 0.864 0.717 0.707 0.707 0.703 0.675 0.675 0.674 0.654 0.654 0.654 0.654 0.652 F1 0.897 0.704 0.672 0.657 0.672 0.657 | 13 14 15 16 17 18 19 20 21 22 12 2 1 22 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 18 19 20 21 22 | Infrd.ai MaChAmp EURECOM RACAI YNUNLP brotherhood MarSan SPDB I.L. B.E.P. BASELINE Team DAMO-NLP USTC-NELSLIP RACAI Sliced NOTC-NELSLIP RACAI Sliced NotEase.AI Infrd.ai brotherhood YNUNLP OPDAI MaChAmp CSECU-DSG MarSan EURECOM silpa_nlp B.E.P. L3i | 0.647 0.638 0.634 0.627 0.614 0.609 0.566 0.557 0.528 0.846 0.846 0.681 0.67 0.666 0.657 0.642 0.634 0.629 0.617 0.577 0.563 0.528 0.515 0.499 0.497 0.486 | 19 20 21 22 23 24 25 26 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | YNUNLP DS4DH UPB CSECU-DSG NSU-AI SPDB I.L. L3i BASELINE Code-Mixed (N Team USTC-NELSLIP DAMO-NLP CMB AI Lab QTrade AI SeqL IIE_KDSEC RACAI UM6P-CS EURECOM OPDAI YNUNLP UC3M-PUCPR brotherhood MaChAmp Sliced CMNEROne L3i Cardiff NLP B.E.P. | 0.668 0.652 0.647 0.644 0.642 0.632 0.478 f1 0.929 0.918 0.846 0.846 0.844 0.803 0.796 0.794 0.792 0.776 0.775 0.768 0.768 0.727 0.704 0.727 0.704 0.687 0.681 0.68 |
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Table 3: Ranking for all of the tracks based on Macro F1. Full forms of the team names "B.E.P." and "SPDB I.L." are BaselineExtendinPokemons and SPDB Innovation Lab, respectively.

track, they leveraged an architecture with shared and per-language representations. Finally, they created an ensemble of models trained with different approaches.

SeqL (Hassan et al., 2022) ranked 4^{th} in MULTI 5^{th} in MIX. They train seven XLM-RoBERTa-large and Infoxlm-large models and then used an ensemble approach with voting and score fusion to predict the final labels. They found that the ensemble approach is slightly better than the best single model, and score fusion worked better than simple voting.

CMB AI Lab (PU et al., 2022) ranked 5^{th} in MULTI, 3^{rd} in MIX, 4^{th} in KO, and 6^{th} in ZH. They first utilized a biaffine layer to identify potential entity spans in a sentence, and the extracted spans are then processed with another classifier to obtain their class label. Finally, an ensemble is created by combining different pre-trained encoders and data augmentation techniques based on translations of the original training data. In terms of pre-trained LMs, they used XLM-RoBERTa and mT5.

5.2 Other Noteworthy Systems

RACAI (Pais, 2022) (3^{rd} in ES, NL, RU, KO, FA, DE, HI; 4^{th} in BN, TR; 5^{th} in EN; 7^{th} in MULTI, MIX; 16^{th} in ZH) used XLM-RoBERTa as pretrained LM and a lateral inhibition layer inspired by the biological mechanism of lateral inhibition. They achieved strong performance in most of the tracks without using any external data.

Sliced (Plank, 2022) (4^{th} in NL, RU, FA, DE, HI; 5^{th} in KO, TR; 6^{th} in ES; 7^{th} in BN; 8^{th} in EN; 9^{th} in MULTI; 12^{th} in ZH; 15^{th} in MIX) used the MaChAmp toolkit (van der Goot et al., 2021) that enables easy exchange of pre-trained LMs for fine-tuning as well as multi-task learning. Within this framework, they have experimented with four different pre-trained LMs and found that XLM-RoBERTa is more efficient for training their system and provides stronger performance.

MaChAmp (van der Goot, 2022) (5th in DE, ES, NL; 6th in RU, TR; 9th in EN; 10th in FA, BN, HI; 11th in KO; 14th in ZH, MIX; 18th in MULTI) first trained a multi-task model on 7 SemEval tasks and then fine-tuned for each task individually. They report that such a multi-tasking and fine-tuning approach is beneficial for a subset of the tasks.

OPDAI (Chen et al., 2022b) $(3^{rd} \text{ in ZH}; 9^{th} \text{ in HI}; 10^{th} \text{ in MIX}; 12^{th} \text{ in MULTI})$ used a hybrid technique with multiple stages involving model ensemble using neural model, soft templates, and

Wikipedia lexicons. Their strong performance in ZH is powered by RoBERTa-wwm (Cui et al., 2021) pre-trained on Chinese data and Chinese word embeddings (Song et al., 2018).

CASIA (Fu et al., 2022) only participated in ZH and ranked 2^{nd} . They built a hybrid system based on RoBERTa-wwm and used three training mechanisms (adversarial training, child-Tuning training, and continued pre-training). Additionally, they performed a series of data augmentation steps.

PAI (Ma et al., 2022) (3^{rd} in EN) used string matching to retrieve entities with types from the LUKE entity dictionary (Yamada et al., 2020) for a given text. Then they concatenated the entity information with the input text and fed it to a pretrained BERT model to build the NER system.

SU-NLP (Çarık et al., 2022) only participated in TR and ranked 3^{rd} . Given an input text, they query an information retrieval (IR) system that indexes Wikipedia articles. Retrieved documents are used as context and a Turkish BERT variant (BERTurk) is used to encode the context and candidate mentions, with classifier heads for NER.

Infrrd.ai (He et al., 2022) participated in nine tracks (EN, ES, NL, KO, DE, ZH, HI, BN, MULTI) and their best rank is 4^{th} for ES. They trained a multilingual model with an XLM-RoBERTa base encoder, whose embeddings were passed into a BiLSTM encoder, which finally passed the encoded tokens to a CRF layer for classification. They also used an ensemble strategy with majority voting.

UM6P-CS (Mekki et al., 2022) ranked 6^{th} in MULTI and 8^{th} in MIX. They introduced several self-training and auxiliary tasks that aim to improve NER classification performance on top of XLM-RoBERTa. The auxiliary task of span classification focused on addressing the mention detection performance of the model, which essentially ensures that the model has good coverage of all named entities, regardless of their type. In terms of self-training, the authors predicted weak labels on the unlabelled test set and concatenated both datasets into one. The impact of self-training seems to have a significant impact with 3% improvement in terms of Precision, and 2.24% in terms of F1 score.

Multilinguals (Pandey et al., 2022a,b) participated in EN, ES, and ZH and best rank is 10^{th} in ZH. They applied a BERT encoder with different classification heads: a linear layer, a CRF layer, and a BiLSTM-CRF. BERT and linear approach worked best for EN. For ES and ZH, they pre-trained BERT using the Whole Word Masking (WWM) learning objective over Wikipedia data and the CRF classification head worked best for these tracks.

L3i (Boros et al., 2022) participated in all tracks and best rank is 7^{th} in DE. They used Sentence-BERT (Reimers and Gurevych, 2019) to retrieve the most similar sentence from the training set and used it as context by adding it to the test text. Their model consists of a BERT encoder with a Transformer layer and a CRF head for classification.

MarSan (Tavan and Najafi, 2022) participated in all tracks and best rank is 9^{th} in FA. They used T5 (monolingual and multilingual) to create feature vector for an input text. Then they performed a subtoken check step to mark the first subword as 1 and others as 0 (Subtoken check increased 4% F1). At the final stage, a Transformer layer is followed by a token prediction layer to perform NER.

TEAM-Atreides (Tasnim et al., 2022) only participated in BN and ranked 8^{th} . They used an ensemble of mono-lingual ELECTRA-based models with majority voting. They also used data augmentation using translation and conducted experiments with non-contextual word embeddings.

UA-KO (Song and Bethard, 2022) ranked 8th in the KO track. They used GeoNames and the Encyclopedia of Korean Culture to incorporate entity names in the training set. Their model uses an ensemble approach with a soft-voting mechanism, combining the monolingual and multilingual models' predictions.

CSECU-DSG (Aziz et al., 2022) participated in all tracks and the best rank is 9^{th} for ZH. The authors propose two approaches: (1) a BiLSTM-CRF that leverages stacked token embeddings from different sources, and (2) a Transformer-based encoder with a feed-forward classification head.

PA Ph&Tech (Lin et al., 2022) participated in ES, DE, and NL and best rank is 9^{th} for NL. They used ensemble embedding from multiple transformers and reinforcement learning was also applied to maximize model accuracy. In an additional setting (Hou et al., 2022), they experimented with an ensemble approach, where they leveraged multiple transformers by assigning different weights in the transformer layers. Meanwhile, data augmentation is also applied to enlarge the training data.

Raccoons (Dogra et al., 2022) ranked 10^{th} in the EN track. They focused on improving word representations for NER through a reinforcement trainer. This was done through a task model and

controller that repeatedly interact to update the embeddings.

AaltoNLP (Pietiläinen and Ji, 2022) participated in five tracks (EN, DE, FA, BN, KO) and the best rank is 11^{th} for FA. Their approach consists of an ensemble strategy where they train two encoders jointly, allowing the models to combine the scores from the different encoders via a linear layer. Different models used different random seeds.

LMN (Lai, 2022) ranked 12^{th} in the EN track. They applied a transfer-based encoder with a feedforward classification head with a CRF layer. Their best variant used the ALBERT-xxlarge model. They also experimented with entity linking with Wikipedia and augmenting data with entities of the same type.

UC3M-PUCPR (Schneider et al., 2022) participated in EN, ES, MIX, and their best rank is 12^{th} for MIX. They have used an ensemble of languagespecific pre-trained LMs with soft-voting to make the final predictions.

NamedEntityRangers (Miftahova et al., 2022) ranked 16^{th} in the MULTI track. They used Rem-BERT and mT5 to experiment with two approaches, where the first approach is the classical token classification method and the second method uses a template-free paradigm in which an encoderdecoder model translates the input sequence of words to a special output, encoding named entities with the predefined label.

CMNEROne (Dowlagar and Mamidi, 2022) ranked 16^{th} in MIX. Their approach involves finetuning multilingual BERT on code-mixed data. To learn language-agnostic features, they pre-trained the model for a downstream task of language identification using the multilingual dataset.

KDDIE (Martin et al., 2022) only participated in the EN track and ranked 16^{th} . They experimented by fine-tuning BERT and DeBERTa-based models and their best system is a fine-tuned DeBERTa-XLarge model.

DS4DH (Rouhizadeh and Teodoro, 2022) ranked 20th in the MULTI track. Their approach involves fine-tuning different pre-trained LMs (Multilingual-BERT, XLM-RoBERTa-base, XLM-RoBERTa-Large, Distilbert-Multilingual) with different classification heads like CRF and fullyconnected layer.

NCUEE-NLP (Lee et al., 2022) ranked 7^{th} in the ZH track. They used external data collected from MSRA, Weibo, People Daily, Boson,

| Class | Baseline | DAMO-NLP | USTC-NELSLIP | QTrade AI |
|-------|----------|-------------|--------------|-------------|
| PER | 63.88 | 92.07 (+28) | 90.76 (+27) | 87.20 (+23) |
| LOC | 51.87 | 86.52 (+35) | 86.81 (+35) | 80.79 (+29) |
| CORP | 49.61 | 84.55 (+35) | 87.86 (+38) | 77.23 (+28) |
| PROD | 44.36 | 84.32 (+40) | 81.05 (+37) | 75.23 (+31) |
| GRP | 39.28 | 79.90 (+41) | 81.52 (+42) | 71.66 (+32) |
| CW | 37.68 | 84.49 (+47) | 83.81 (+46) | 73.85 (+36) |

Table 4: F1 scores of the baseline and top three systems in the MULTI track for each class.

CLUNER, and LG, and trained a BiLSTM-CRF model with embeddings from a BERT model pre-trained on Chinese data.

DANGNT-SGU (Nguyen and Huynh, 2022) ranked 25^{th} in the EN track by fine-tuning RoBERTa on the training data.

silpa_nlp (Singh et al., 2022) ranked 14^{th} in HI and BN by fine-tuning XLM-R on the training set.

6 Insights from the Systems

6.1 Advancing the State of the Art

Identifying Complex Entities From the ranking in Table 3, we see that almost all the teams could outperform the official baseline system described in Section 4 in all the tracks. For most of the tracks, the top two teams DAMO-NLP and USTC-NELSLIP's performance gap is very small compared to third place. To btter understand this difference, we look at per-class performance. In Table 4, we show per-class F1 scores for the top three teams in the MULTI track. Although the systems performed better than the official baseline by a large margin, complex entities like creative works, products, and groups are still the most difficult ones to identify. This analysis shows that the largest gains by the top systems leveraging external knowledge came from classes containing complex NEs, e.g. CW and GRP.

Domain Adaptation The official baseline system performed poorly in terms of domain adaptation and achieved much lower F1 in MSQ-NER and ORCAS-NER compared to LOWNER. Intuitively, augmenting the training data with interrogative sentences could be a way to perform better in these domains. However, we observe that the participants could overcome the challenge of domain adaptation without especially including questions and queries

Multilingual

XLM-RoBERTa (XLM-R; Conneau et al. (2020)) : DAMO-NLP, USTC-NELSLIP, QTrade AI, SeqL, CMB AI Lab, RACAI, Sliced, Infrrd.ai, UM6P-CS, UA-KO, CSECU-DSG, PA Ph&Tech, Raccoons, AaltoNLP, UC3M-PUCPR, DS4DH, silpa_nlp

mT5 (Xue et al., 2021): CMB AI Lab, MarSan, NamedEntityRangers

mBERT (Devlin et al., 2019): Sliced, L3i, PA Ph&Tech, UC3M-PUCPR, CMNEROne, DS4DH

RemBERT (Chung et al., 2021): Sliced, NamedEntityRangers

English

BERT (Devlin et al., 2019): PAI, Multilinguals, CSECU-DSG, PA Ph&Tech, Raccoons, UC3M-PUCPR, KDDIE

BigBird RoBERTa (Zaheer et al., 2021): L3i

T5 (Raffel et al., 2020): MarSan

XLNet (Yang et al., 2019): PA Ph&Tech

ALBERT (Lan et al., 2020): LMN

RoBERTa (Liu et al., 2019): UC3M-PUCPR, DANGNT-SGU

DistillBERT (Sanh et al., 2019), ELECTRA (Clark

et al., 2020): UC3M-PUCPR

DeBERTa (He et al., 2021): KDDIE

Spanish

Spanish BERT (Canete et al., 2020): Multilinguals BERT-wwm: L3i

Beto (Cañete et al., 2020), Spanish RoBERTa

(Gutiérrez-Fandiño et al., 2021): UC3M-PUCPR

Chinese

RoBERTa-wwm (Cui et al., 2021): OPDAI, CASIA, Multilinguals

BERT⁶: L3i, NCUEE-NLP Korean

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KoBERT<sup>7</sup>, Ko-ELECTRA<sup>8</sup>, KR-BERT (Lee et al., 2020), KLUE-RoBERTa (Park et al., 2021): UA-KO
BERT<sup>9</sup>: L3i
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DEKI : L31

BERT¹¹: L3i

Bangla BanglaBERT (Bhattacharjee et al., 2022): TEAM-Atreides

Dutch BERT ¹⁰: L3i

Farsi

ParsBERT (Farahani et al., 2020): L3i

German

| Hindi | Hindi | |
|-----------------------------------|----------------------|-------------|
| IndicBERT (Kakwani et al., 2020): | kwani et al., 2020): | IndicBERT (|

| | Russian | |
|-------------|---------|--|
| RuBERT: L3i | | |
| | Turkish | |

silpa_nlp

BERTurk (Schweter, 2020): SU-NLP, L3i

Table 5: Pre-trained Transformer language models used by the teams for different languages. BERT models for non-English languages are trained on the specific languages' data with BERT architecture by the community.

⁶https://huggingface.co/bert-base-chinese

⁷https://github.com/SKTBrain/KoBERT

⁸ https://github.com/monologg/KoELECTRA

⁹ https://huggingface.co/kykim/bert-kor-base

¹⁰ https://huggingface.co/wietsedv/bert-base-dutch-cased

¹¹https://huggingface.co/dbmdz/bert-base-german-uncased

in their external data. For example, DAMO-NLP found that their approach of retrieving Wikipedia paragraphs not only provided a strong performance on LOWNER, but also helped with cross-domain transferability.

Adapting to MSQ was easier compared to ORCAS-NER for all the tracks except Bangla. The top systems like DAMO-NLP and USTC-NELSLIP struggled in MSQ-NER for Bangla, while they typically had higher F1 scores for MSQ-NER than ORCAS-NER for the other tracks. This could be an interesting direction to explore in the future.

6.2 Other Insights

External Data In Section 5 we observe that such superior performance by these top systems became possible by exploiting external knowledge during learning and inference. While USTC-NELSLIP used knowledge from pre-trained language models to fine-tune Gazetteer presentations, DAMO-NLP directly used raw texts from Wikipedia to inject context and it gave them an advantage over USTC-NELSLIP in most tracks.

As the availability of external data is higher for English compared to other languages, most of the teams participating in other languages used publicly available pre-trained models for other languages, or translated data from other languages. For example, CASIA augmented data from other languages with translation, and it helped them to secure second place in the Chinese track. In general, a large portion of the participating teams showed that they can do better if they can go beyond the provided training data, and use external data or pretrained language models for different languages to inject external knowledge in some way.

Modeling Approaches Almost all participating systems relied on publicly available Transformer (Vaswani et al., 2017) based pre-trained language models (Table 5). XLM-RoBERTa (a.k.a. XLM-R) was the most popular choice for building multilingual models. Most of the teams participating in non-English monolingual tracks preferred this particular model to the multilingual variant of BERT.

Other recent language models like T5, ELEC-TRA, XLNet, and ALBERT were used by some of the teams, but mostly for English. We observed that for non-English languages, many teams used community-developed pre-trained models for other languages like Chinese, Hindi, Spanish, Korean, Bangla, Turkish, Russian, Farsi, Dutch, and German. Most of such models are trained using the BERT architecture with data for the respective languages. A lot of teams relied on the strength of Conditional Random Field (CRF; Lafferty et al. 2001) for sequence labeling problems and adopted it to gain stronger performance. Very few teams used architectures like LSTMs.

Teams that simply fine-tuned pre-trained language models performed similarly to the baseline system for most of the tracks. Apart from the previously mentioned role of external data, another vital component for strong performance is using ensemble learning strategies. Almost all the strong performing teams trained multiple models and ensembled them for making the final predictions. We have also observed some teams experimenting with adversarial training and reinforcement learning.

7 Conclusion

In this paper, we have presented an overview of the SemEval shared task on identifying complex entities in multiple languages. In this shared task, we have received system submissions from 55 competing teams, and 34 system description papers. On average, the wining systems for all the tracks outperformed the baseline system by a large margin of 35% F1.

Most of the top-performing teams in MULTICONER utilized external knowledge bases like Wikipedia and Gazetteer. They also tend to use XLM-RoBERTa as the pre-trained language model. In terms of modeling approaches, ensemble strategies helped the systems to achieve strong performance. Results from the top teams indicate that identifying complex entities like creative works is still difficult among all the classes even with the usage of external data.

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Appendix

In this section, we provide the domain specific performance of the teams on each track. For each team, we report precision, recall, and F1 for the three domains, i.e., LOWNER, ORCAS, and MSQ. We also highlight the baseline system's performance breakdown for each track. Each track's result is presented in its individual table as listed here:

- Table 6 Bangla (BN)
- Table 7 German (DE)
- Table 8 English (EN)
- Table 9 Spanish (ES)
- Table 10 Farsi (FA)
- Table 11 Hindi (HI)
- Table 12 Korean (KO)
- Table 13 Dutch (NL)
- Table 14 Russian (RU)
- Table 15 Turkish (TR)
- Table 16 Chinese (ZH)
- Table 17 Code-Mixed (MIX)
- Table 18 Multi-lingual (MULTI)

A Detailed Results

A.1 Bangla (BN)

| Rank | Team | | Lowni | ER | OR | CAS-N | ER | | Msq-N | NER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | USTC-NELSLIP | 87.32 | 85.82 | 86.56 | 84.2 | 81.78 | 82.37 | 77.21 | 73.44 | 75.12 | 85.84 | 83.43 | 84.24 | |
| 2 | DAMO-NLP | 86.42 | 86.21 | 86.31 | 83.24 | 81.25 | 82.13 | 73.45 | 70.9 | 72.0 | 84.63 | 82.53 | 83.51 | |
| 3 | NetEase.AI | 85.83 | 84.53 | 85.16 | 70.32 | 64.64 | 67.17 | 63.36 | 61.69 | 62.14 | 73.78 | 68.39 | 70.88 | |
| 4 | RACAI | 83.09 | 83.48 | 83.28 | 63.62 | 60.98 | 61.6 | 63.36 | 58.51 | 60.69 | 68.08 | 65.33 | 66.28 | |
| 5 | Infrrd.ai | 81.52 | 81.82 | 81.66 | 61.59 | 58.48 | 59.5 | 56.06 | 57.36 | 56.45 | 65.68 | 62.99 | 63.99 | |
| 6 | YNUNLP | 81.46 | 81.01 | 81.21 | 60.64 | 58.68 | 59.12 | 58.58 | 56.63 | 57.45 | 65.11 | 63.14 | 63.8 | |
| 7 | Sliced | 82.88 | 83.36 | 83.1 | 59.71 | 57.88 | 58.06 | 57.1 | 57.77 | 57.12 | 64.24 | 62.8 | 63.05 | |
| 8 | Team Atreides | 84.23 | 82.8 | 83.48 | 56.8 | 52.85 | 54.23 | 55.12 | 58.34 | 55.44 | 62.09 | 58.25 | 59.75 | |
| 9 | brotherhood | 81.56 | 80.71 | 81.12 | 55.18 | 52.0 | 53.3 | 50.91 | 54.78 | 51.86 | 60.33 | 57.24 | 58.63 | |
| 10 | MaChAmp | 78.44 | 79.84 | 79.13 | 52.18 | 51.52 | 51.02 | 54.05 | 52.96 | 52.87 | 57.25 | 56.61 | 56.46 | |
| 11 | MarSan | 79.04 | 79.04 | 78.98 | 51.83 | 48.05 | 48.83 | 42.42 | 50.57 | 43.92 | 56.48 | 53.77 | 54.22 | |
| 12 | EURECOM | 75.36 | 73.45 | 74.37 | 49.33 | 47.05 | 48.12 | 45.52 | 50.4 | 45.28 | 53.78 | 51.51 | 52.57 | |
| 13 | AaltoNLP | 79.09 | 78.46 | 78.74 | 49.19 | 43.34 | 45.78 | 48.42 | 47.42 | 45.84 | 55.09 | 49.27 | 51.79 | |
| 14 | silpa_nlp | 76.37 | 75.97 | 76.16 | 47.42 | 44.68 | 45.61 | 44.86 | 48.77 | 45.52 | 53.0 | 50.34 | 51.39 | |
| 15 | CSECU-DSG | 74.96 | 74.96 | 74.95 | 46.84 | 43.8 | 44.85 | 45.6 | 48.63 | 46.14 | 52.21 | 49.42 | 50.55 | |
| 16 | BaselineExtendingPokemons | 72.49 | 75.55 | 73.96 | 38.86 | 40.68 | 39.2 | 40.13 | 44.07 | 40.97 | 44.48 | 46.3 | 45.07 | |
| 17 | L3i | 73.5 | 72.57 | 73.01 | 40.52 | 38.43 | 39.08 | 39.87 | 42.34 | 39.82 | 46.08 | 43.94 | 44.81 | |
| 18 | Enigma | 73.2 | 73.34 | 72.96 | 41.16 | 36.48 | 37.1 | 39.47 | 40.82 | 36.11 | 46.64 | 42.03 | 42.68 | |
| 19 | Baseline | 69.27 | 69.88 | 69.54 | 34.12 | 34.67 | 34.16 | 34.03 | 37.57 | 34.56 | 39.29 | 39.81 | 39.41 | |

Table 6: Detailed results for Bangla track.

A.2 German (DE)

| Rank | Team | | Lown | ER | Or | CAS-N | ER | | Msq-N | IER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | DAMO-NLP | 94.87 | 94.92 | 94.89 | 84.74 | 84.4 | 84.4 | 84.94 | 87.8 | 86.18 | 90.85 | 90.5 | 90.65 | |
| 2 | USTC-NELSLIP | 95.8 | 95.03 | 95.41 | 80.5 | 78.8 | 79.33 | 87.06 | 86.65 | 86.83 | 89.88 | 88.35 | 89.05 | |
| 3 | RACAI | 91.76 | 91.15 | 91.44 | 62.79 | 61.99 | 61.89 | 70.38 | 73.61 | 71.61 | 80.01 | 78.97 | 79.39 | |
| 4 | Sliced | 90.94 | 91.04 | 90.99 | 61.53 | 62.81 | 61.53 | 71.32 | 72.85 | 71.9 | 78.84 | 79.18 | 78.9 | |
| 5 | MaChAmp | 89.51 | 89.87 | 89.69 | 61.85 | 63.71 | 62.16 | 69.0 | 73.04 | 70.63 | 78.13 | 78.83 | 78.38 | |
| 6 | YNUNLP | 90.22 | 89.6 | 89.9 | 59.59 | 60.56 | 59.23 | 70.62 | 70.7 | 70.23 | 77.51 | 77.42 | 77.32 | |
| 7 | L3i | 90.71 | 90.72 | 90.71 | 60.0 | 56.23 | 57.46 | 64.26 | 67.57 | 65.32 | 78.58 | 76.18 | 77.23 | |
| 8 | ML-HUB | 88.39 | 87.7 | 88.03 | 59.73 | 58.93 | 59.06 | 60.55 | 69.53 | 63.48 | 76.63 | 75.8 | 76.14 | |
| 9 | brotherhood | 90.05 | 89.66 | 89.85 | 56.83 | 55.8 | 55.78 | 64.29 | 67.98 | 65.53 | 76.57 | 75.52 | 75.94 | |
| 10 | Infrrd.ai | 90.65 | 85.64 | 88.06 | 63.26 | 54.19 | 57.6 | 70.52 | 65.87 | 67.84 | 80.05 | 72.47 | 75.9 | |
| 11 | EURECOM | 88.89 | 88.68 | 88.77 | 56.16 | 54.01 | 53.87 | 62.18 | 64.02 | 62.58 | 75.61 | 73.84 | 74.43 | |
| 12 | MarSan | 88.4 | 89.05 | 88.7 | 52.14 | 52.92 | 51.53 | 57.75 | 61.82 | 58.54 | 73.1 | 73.6 | 73.12 | |
| 13 | CSECU-DSG | 86.43 | 84.81 | 85.6 | 56.79 | 50.75 | 53.01 | 61.93 | 60.99 | 61.15 | 74.93 | 70.47 | 72.49 | |
| 14 | AaltoNLP | 86.49 | 87.0 | 86.73 | 52.31 | 46.07 | 48.37 | 58.33 | 60.85 | 59.04 | 73.16 | 69.92 | 71.37 | |
| 15 | PA Ph&Tech | 86.08 | 74.14 | 79.5 | 53.42 | 45.67 | 48.58 | 56.6 | 57.15 | 55.79 | 72.65 | 62.35 | 66.75 | |
| 16 | BaselineExtendingPokemons | 83.81 | 85.25 | 84.52 | 40.75 | 44.29 | 42.04 | 47.58 | 56.25 | 50.58 | 65.44 | 67.99 | 66.59 | |
| 17 | Baseline | 80.64 | 81.16 | 80.83 | 39.86 | 41.06 | 39.96 | 46.89 | 55.54 | 49.6 | 63.45 | 64.41 | 63.74 | |

Table 7: Detailed results for German track.

A.3 English (EN)

| Rank | Team | | Lown | ER | Or | CAS-N | ER | | Msq-N | NER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | DAMO-NLP | 96.68 | 96.87 | 96.78 | 84.27 | 83.51 | 83.72 | 81.76 | 85.69 | 83.5 | 91.54 | 90.95 | 91.22 | |
| 2 | USTC-NELSLIP | 92.83 | 91.38 | 92.09 | 76.78 | 75.05 | 75.59 | 80.1 | 83.66 | 81.74 | 86.41 | 84.67 | 85.47 | |
| 3 | PAI | 90.87 | 91.05 | 90.96 | 62.2 | 60.08 | 60.58 | 64.79 | 68.2 | 65.91 | 79.09 | 77.88 | 78.37 | |
| 4 | ML-HUB | 90.27 | 87.61 | 88.9 | 68.47 | 56.88 | 61.6 | 73.17 | 67.47 | 69.46 | 82.24 | 74.68 | 78.14 | |
| 5 | RACAI | 88.67 | 88.08 | 88.37 | 59.37 | 57.87 | 57.84 | 67.77 | 70.11 | 68.75 | 76.54 | 75.35 | 75.78 | |
| 6 | Infrrd.ai | 88.29 | 87.05 | 87.65 | 58.0 | 55.11 | 56.15 | 64.7 | 68.89 | 65.83 | 75.97 | 73.6 | 74.71 | |
| 7 | EURECOM | 88.82 | 89.06 | 88.94 | 54.1 | 55.31 | 54.25 | 62.55 | 65.93 | 63.41 | 74.43 | 74.9 | 74.57 | |
| 8 | Sliced | 87.47 | 87.99 | 87.73 | 56.99 | 57.19 | 56.17 | 67.39 | 69.0 | 68.06 | 74.53 | 74.93 | 74.54 | |
| 9 | MaChAmp | 86.21 | 87.25 | 86.72 | 57.3 | 58.18 | 57.11 | 64.97 | 69.55 | 66.75 | 74.16 | 74.97 | 74.48 | |
| 10 | Raccoons | 87.66 | 89.39 | 88.5 | 53.63 | 55.09 | 54.02 | 63.57 | 68.39 | 65.42 | 73.43 | 75.05 | 74.18 | |
| 11 | YNUNLP | 86.75 | 86.92 | 86.83 | 53.96 | 55.4 | 53.98 | 64.99 | 68.33 | 65.78 | 72.99 | 73.64 | 73.17 | |
| 12 | LMN | 87.05 | 88.71 | 87.87 | 50.96 | 52.17 | 51.2 | 58.43 | 63.84 | 60.45 | 71.78 | 73.33 | 72.5 | |
| 13 | brotherhood | 87.16 | 86.41 | 86.78 | 52.76 | 51.48 | 51.67 | 61.74 | 65.7 | 62.73 | 73.18 | 71.71 | 72.35 | |
| 14 | L3i | 87.21 | 87.34 | 87.26 | 54.6 | 47.87 | 49.71 | 61.33 | 64.08 | 62.57 | 73.82 | 70.8 | 71.96 | |
| 15 | Multilinguals | 86.47 | 87.43 | 86.94 | 53.03 | 48.86 | 50.16 | 59.4 | 59.55 | 59.11 | 72.71 | 71.09 | 71.74 | |
| 16 | KDDIE | 86.65 | 87.7 | 87.17 | 50.36 | 51.15 | 50.4 | 58.29 | 63.63 | 60.57 | 71.34 | 72.26 | 71.73 | |
| 17 | MarSan | 85.75 | 86.21 | 85.96 | 50.83 | 52.24 | 51.16 | 58.91 | 64.9 | 60.64 | 71.11 | 71.91 | 71.45 | |
| 18 | Cardiff NLP | 85.93 | 87.6 | 86.75 | 47.63 | 51.41 | 49.24 | 56.23 | 64.49 | 58.55 | 69.72 | 72.28 | 70.94 | |
| 19 | Lone Wolf | 85.08 | 85.96 | 85.51 | 47.36 | 48.76 | 47.75 | 56.33 | 62.44 | 58.47 | 69.35 | 70.31 | 69.77 | |
| 20 | MIDAS | 84.68 | 81.79 | 83.19 | 54.75 | 46.84 | 49.73 | 60.63 | 57.45 | 58.34 | 72.95 | 66.95 | 69.62 | |
| 21 | UC3M-PUCPR | 86.6 | 87.12 | 86.84 | 46.23 | 46.28 | 44.25 | 54.95 | 57.3 | 54.07 | 69.95 | 69.73 | 69.24 | |
| 22 | CSECU-DSG | 84.76 | 86.08 | 85.41 | 47.0 | 47.79 | 47.22 | 50.45 | 60.14 | 54.01 | 68.72 | 69.81 | 69.24 | |
| 23 | Sartipi-Sedighin | 82.95 | 84.69 | 83.78 | 44.4 | 47.16 | 45.6 | 46.42 | 58.19 | 49.72 | 66.34 | 68.79 | 67.51 | |
| 24 | Enigma | 82.55 | 83.19 | 82.86 | 46.14 | 46.04 | 45.45 | 57.07 | 61.73 | 58.17 | 66.97 | 67.74 | 67.19 | |
| 25 | DANGNT-SGU | 83.6 | 84.7 | 84.1 | 43.14 | 44.68 | 43.28 | 51.75 | 58.74 | 53.38 | 66.51 | 67.7 | 66.89 | |
| 26 | AaltoNLP | 83.27 | 84.19 | 83.73 | 48.89 | 33.87 | 39.24 | 53.95 | 54.21 | 53.51 | 71.57 | 63.0 | 66.85 | |
| 27 | SPDB Innovation Lab | 81.35 | 81.74 | 81.54 | 42.16 | 43.57 | 42.63 | 49.45 | 57.98 | 52.18 | 64.52 | 65.77 | 65.11 | |
| 28 | silpa_nlp | 81.48 | 80.54 | 80.99 | 39.58 | 38.98 | 38.65 | 48.81 | 54.1 | 49.95 | 64.13 | 63.06 | 63.42 | |
| 29 | BaselineExtendingPokemons | 80.03 | 82.27 | 81.11 | 38.13 | 42.3 | 39.96 | 43.97 | 57.67 | 48.84 | 61.36 | 65.35 | 63.24 | |
| 30 | Baseline | 78.25 | 78.0 | 78.11 | 38.89 | 37.47 | 37.61 | 46.21 | 52.2 | 48.26 | 62.07 | <u>60.9</u> 7 | 61.36 | |
| 31 | AutoNER | 72.29 | 74.77 | 73.35 | 30.6 | 33.53 | 31.02 | 45.77 | 49.65 | 47.21 | 54.73 | 57.68 | 55.72 | |

Table 8: Detailed results for English track.

A.4 Spanish (ES)

| Rank | Team | | Lown | ER | OR | CAS-N | ER | | Msq-N | NER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | DAMO-NLP | 96.23 | 96.15 | 96.19 | 82.45 | 80.91 | 81.33 | 82.25 | 84.51 | 83.1 | 90.58 | 89.41 | 89.94 | |
| 2 | USTC-NELSLIP | 90.15 | 88.08 | 89.1 | 80.99 | 79.17 | 79.68 | 84.49 | 85.95 | 85.1 | 86.64 | 84.39 | 85.44 | |
| 3 | RACAI | 85.29 | 85.31 | 85.29 | 63.37 | 62.39 | 61.74 | 71.98 | 72.92 | 72.35 | 76.21 | 75.43 | 75.62 | |
| 4 | Infrrd.ai | 85.21 | 85.55 | 85.37 | 62.06 | 61.71 | 61.32 | 66.18 | 70.93 | 67.82 | 75.59 | 75.11 | 75.26 | |
| 5 | MaChAmp | 84.71 | 85.34 | 85.01 | 61.53 | 62.99 | 61.49 | 67.99 | 72.11 | 69.5 | 74.94 | 75.66 | 75.2 | |
| 6 | Sliced | 85.68 | 85.92 | 85.79 | 60.74 | 61.6 | 60.39 | 69.21 | 71.57 | 70.18 | 75.15 | 75.32 | 75.11 | |
| 7 | YNUNLP | 84.18 | 85.45 | 84.8 | 57.41 | 58.71 | 56.95 | 68.33 | 68.64 | 68.17 | 72.93 | 73.8 | 73.17 | |
| 8 | brotherhood | 85.66 | 84.73 | 85.19 | 51.7 | 51.52 | 51.08 | 59.55 | 62.29 | 60.31 | 71.23 | 70.35 | 70.69 | |
| 9 | L3i | 83.73 | 84.32 | 84.01 | 48.98 | 50.03 | 48.94 | 52.25 | 58.52 | 54.73 | 68.71 | 69.34 | 68.93 | |
| 10 | PA Ph&Tech | 82.95 | 81.48 | 82.21 | 51.11 | 52.8 | 51.49 | 51.07 | 64.25 | 55.15 | 68.89 | 69.23 | 68.93 | |
| 11 | MarSan | 83.12 | 82.84 | 82.96 | 49.26 | 50.7 | 48.52 | 56.64 | 60.4 | 57.46 | 68.65 | 68.71 | 68.3 | |
| 12 | SPDB Innovation Lab | 83.57 | 81.69 | 82.55 | 49.62 | 48.7 | 46.57 | 60.29 | 57.49 | 57.59 | 68.96 | 67.24 | 67.31 | |
| 13 | CSECU-DSG | 82.87 | 79.64 | 81.2 | 47.04 | 41.64 | 43.17 | 55.04 | 53.7 | 53.72 | 68.94 | 63.13 | 65.62 | |
| 14 | EURECOM | 80.25 | 80.44 | 80.31 | 40.24 | 41.26 | 40.25 | 40.59 | 48.14 | 43.16 | 62.49 | 63.26 | 62.77 | |
| 15 | Multilinguals | 81.13 | 80.52 | 80.81 | 36.73 | 34.24 | 34.69 | 42.77 | 45.66 | 43.57 | 62.27 | 60.46 | 61.2 | |
| 16 | Sartipi-Sedighin | 77.29 | 79.74 | 78.36 | 37.11 | 39.41 | 37.62 | 42.44 | 47.33 | 43.67 | 59.82 | 62.03 | 60.7 | |
| 17 | BaselineExtendingPokemons | 77.3 | 80.34 | 78.76 | 34.47 | 38.82 | 36.01 | 40.95 | 50.19 | 44.0 | 58.32 | 62.22 | 60.08 | |
| 18 | Baseline | 75.66 | 77.0 | 76.24 | 33.32 | 36.11 | 33.58 | 41.34 | 45.99 | 43.08 | 57.07 | 59.08 | 57.84 | |
| 19 | UC3M-PUCPR | 73.93 | 72.16 | 72.89 | 37.33 | 36.14 | 35.42 | 40.39 | 41.63 | 40.88 | 58.38 | 56.22 | 56.79 | |

Table 9: Detailed results for Spanish track.

A.5 Farsi (FA)

| Rank | Team | | Lown | ER | OR | CAS-N | ER |] | Msq-N | NER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | DAMO-NLP | 95.96 | 97.01 | 96.48 | 84.99 | 84.92 | 84.84 | 86.79 | 88.15 | 87.36 | 89.81 | 89.66 | 89.7 | |
| 2 | USTC-NELSLIP | 86.13 | 84.49 | 85.29 | 88.2 | 86.57 | 87.2 | 92.45 | 91.11 | 91.75 | 88.16 | 86.1 | 87.05 | |
| 3 | RACAI | 80.5 | 82.15 | 81.31 | 63.18 | 61.96 | 62.02 | 70.05 | 72.19 | 70.87 | 70.77 | 70.45 | 70.42 | |
| 4 | Sliced | 79.17 | 82.11 | 80.61 | 59.39 | 61.16 | 59.93 | 64.35 | 69.55 | 66.23 | 67.83 | 69.77 | 68.66 | |
| 5 | YNUNLP | 79.54 | 80.54 | 80.02 | 58.25 | 58.55 | 57.78 | 67.51 | 68.33 | 67.65 | 67.29 | 67.57 | 67.19 | |
| 6 | brotherhood | 81.16 | 81.69 | 81.41 | 56.13 | 54.41 | 54.7 | 61.28 | 64.6 | 62.35 | 66.46 | 65.53 | 65.74 | |
| 7 | C-3PO | 78.94 | 81.67 | 80.27 | 55.55 | 55.46 | 55.08 | 59.7 | 65.57 | 61.84 | 65.14 | 66.28 | 65.51 | |
| 8 | L3i | 79.18 | 80.65 | 79.89 | 54.78 | 55.18 | 54.63 | 56.26 | 63.86 | 59.08 | 64.91 | 65.59 | 65.11 | |
| 9 | MarSan | 76.49 | 80.84 | 78.59 | 51.54 | 50.99 | 50.61 | 55.71 | 57.7 | 56.29 | 61.8 | 63.06 | 62.14 | |
| 10 | MaChAmp | 75.36 | 78.68 | 76.98 | 48.89 | 51.69 | 49.72 | 50.36 | 58.05 | 53.13 | 59.4 | 62.43 | 60.71 | |
| 11 | AaltoNLP | 76.46 | 79.88 | 78.1 | 48.19 | 46.28 | 46.37 | 48.18 | 56.85 | 51.39 | 59.19 | 59.58 | 58.93 | |
| 12 | Sartipi-Sedighin | 75.79 | 79.59 | 77.63 | 44.49 | 44.77 | 44.41 | 45.79 | 53.09 | 47.63 | 57.08 | 58.64 | 57.73 | |
| 13 | EURECOM | 75.0 | 77.28 | 76.06 | 43.2 | 42.14 | 42.28 | 43.79 | 48.69 | 45.16 | 56.07 | 56.08 | 55.91 | |
| 14 | CSECU-DSG | 75.96 | 79.15 | 77.5 | 41.98 | 41.09 | 41.06 | 43.58 | 49.03 | 45.55 | 55.8 | 56.17 | 55.81 | |
| 15 | Baseline | 69.25 | 74.5 | 71.67 | 41.12 | 39.84 | 39.03 | 45.79 | 48.2 | 46.59 | 52.7 | 53.46 | 52.24 | |
| 16 | BaselineExtendingPokemons | 70.89 | 77.3 | 73.91 | 36.59 | 39.87 | 37.62 | 34.33 | 46.97 | 39.02 | 49.15 | 54.33 | 51.26 | |

Table 10: Detailed results for Farsi track.

A.6 Hindi (HI)

| Rank | Team | | Lown | ER | OR | CAS-N | ER | | Msq-N | NER | Average | | | |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|--|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 | |
| 1 | DAMO-NLP | 84.85 | 83.54 | 84.18 | 86.82 | 84.85 | 85.75 | 88.54 | 89.94 | 89.2 | 87.27 | 85.28 | 86.23 | |
| 2 | USTC-NELSLIP | 86.49 | 83.93 | 85.18 | 84.66 | 82.87 | 83.16 | 91.89 | 90.14 | 90.94 | 86.0 | 83.92 | 84.64 | |
| 3 | RACAI | 82.04 | 81.99 | 82.01 | 64.17 | 62.46 | 62.65 | 75.62 | 75.96 | 75.55 | 69.05 | 67.77 | 68.08 | |
| 4 | Sliced | 81.48 | 81.81 | 81.64 | 62.82 | 61.48 | 61.32 | 73.49 | 75.32 | 73.75 | 67.93 | 66.98 | 67.0 | |
| 5 | NetEase.AI | 85.69 | 82.75 | 84.15 | 63.24 | 57.65 | 59.88 | 72.61 | 73.95 | 72.38 | 69.67 | 64.27 | 66.63 | |
| 6 | Infrrd.ai | 79.87 | 80.01 | 79.93 | 61.41 | 60.08 | 59.99 | 71.21 | 75.78 | 72.9 | 66.58 | 65.6 | 65.72 | |
| 7 | brotherhood | 82.17 | 81.01 | 81.58 | 59.76 | 56.88 | 57.68 | 68.91 | 74.4 | 70.59 | 65.72 | 63.35 | 64.23 | |
| 8 | YNUNLP | 79.67 | 79.89 | 79.77 | 58.21 | 57.96 | 57.35 | 69.94 | 72.85 | 70.7 | 63.8 | 63.69 | 63.39 | |
| 9 | OPDAI | 74.82 | 75.9 | 75.28 | 57.86 | 59.07 | 57.86 | 67.39 | 70.83 | 68.76 | 63.03 | 63.58 | 62.94 | |
| 10 | MaChAmp | 76.31 | 77.7 | 76.99 | 56.15 | 56.27 | 55.5 | 67.53 | 72.36 | 69.47 | 61.9 | 62.21 | 61.73 | |
| 11 | CSECU-DSG | 75.97 | 71.45 | 73.56 | 55.49 | 48.73 | 51.54 | 66.57 | 65.47 | 65.16 | 61.46 | 54.77 | 57.68 | |
| 12 | MarSan | 75.09 | 75.61 | 75.27 | 49.77 | 50.46 | 49.34 | 62.45 | 66.61 | 63.72 | 56.39 | 57.01 | 56.31 | |
| 13 | EURECOM | 68.92 | 69.69 | 69.27 | 48.59 | 46.71 | 47.17 | 53.28 | 59.51 | 54.73 | 53.84 | 52.36 | 52.78 | |
| 14 | silpa_nlp | 73.9 | 73.75 | 73.81 | 45.53 | 43.87 | 44.32 | 51.24 | 58.5 | 51.16 | 52.44 | 51.22 | 51.49 | |
| 15 | BaselineExtendingPokemons | 70.78 | 72.33 | 71.49 | 42.34 | 43.21 | 42.33 | 55.07 | 61.31 | 55.57 | 49.68 | 50.68 | 49.9 | |
| 16 | L3i | 72.38 | 71.34 | 71.8 | 44.0 | 42.07 | 42.26 | 51.0 | 58.13 | 52.89 | 51.01 | 49.24 | 49.73 | |
| 17 | Enigma | 71.14 | 71.84 | 71.03 | 44.43 | 39.86 | 40.47 | 56.21 | 58.85 | 55.9 | 51.61 | 48.28 | 48.62 | |
| 18 | Baseline | 65.67 | 66.44 | 65.96 | 41.38 | 42.59 | 41.55 | 54.03 | 56.67 | 53.26 | 48.08 | 48.98 | 48.22 | |

Table 11: Detailed results for Hindi track.

A.7 Korean (KO)

| Rank | Team | | LOWN | ER | OR | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | DAMO-NLP | 96.58 | 97.1 | 96.83 | 81.1 | 81.41 | 81.06 | 79.44 | 84.96 | 81.96 | 88.55 | 88.7 | 88.59 |
| 2 | USTC-NELSLIP | 90.64 | 90.11 | 90.37 | 83.23 | 81.15 | 81.82 | 88.45 | 87.97 | 88.19 | 87.39 | 85.56 | 86.36 |
| 3 | RACAI | 85.26 | 86.81 | 86.02 | 58.82 | 58.58 | 57.79 | 69.52 | 69.63 | 69.38 | 72.06 | 71.93 | 71.74 |
| 4 | CMB AI Lab | 88.93 | 88.23 | 88.57 | 60.73 | 47.02 | 52.7 | 64.9 | 58.35 | 61.09 | 75.92 | 66.33 | 70.7 |
| 5 | Sliced | 84.81 | 86.93 | 85.85 | 55.92 | 58.41 | 56.44 | 65.28 | 68.6 | 66.81 | 69.82 | 71.94 | 70.66 |
| 6 | YNUNLP | 84.74 | 85.42 | 85.05 | 57.39 | 57.11 | 56.36 | 66.48 | 68.39 | 67.34 | 70.69 | 70.51 | 70.33 |
| 7 | C-3PO | 86.24 | 87.42 | 86.8 | 51.02 | 49.85 | 49.69 | 56.08 | 57.72 | 56.27 | 68.15 | 67.4 | 67.49 |
| 8 | UA-KO | 85.91 | 87.78 | 86.83 | 50.59 | 49.63 | 49.67 | 55.92 | 59.24 | 56.92 | 67.72 | 67.52 | 67.49 |
| 9 | brotherhood | 85.83 | 86.67 | 86.24 | 50.8 | 50.69 | 50.23 | 57.33 | 61.72 | 58.98 | 67.61 | 67.5 | 67.41 |
| 10 | Infrrd.ai | 84.15 | 86.13 | 85.13 | 50.75 | 52.07 | 50.99 | 58.9 | 63.65 | 60.55 | 66.69 | 68.17 | 67.29 |
| 11 | MaChAmp | 81.48 | 83.99 | 82.71 | 49.31 | 51.21 | 49.6 | 53.61 | 62.55 | 57.03 | 64.68 | 66.55 | 65.45 |
| 12 | EURECOM | 86.4 | 86.63 | 86.5 | 46.68 | 46.14 | 45.87 | 50.13 | 54.66 | 51.57 | 65.25 | 65.14 | 64.96 |
| 13 | L3i | 83.92 | 84.93 | 84.38 | 42.92 | 45.9 | 43.97 | 48.18 | 55.21 | 50.82 | 61.57 | 64.09 | 62.68 |
| 14 | MarSan | 81.58 | 84.79 | 83.14 | 43.31 | 45.49 | 43.75 | 47.76 | 54.49 | 49.99 | 61.13 | 63.92 | 62.26 |
| 15 | CSECU-DSG | 82.99 | 85.12 | 84.04 | 43.2 | 42.04 | 42.11 | 48.96 | 50.41 | 48.72 | 62.27 | 62.14 | 62.05 |
| 16 | AaltoNLP | 82.06 | 83.23 | 82.61 | 44.96 | 43.38 | 42.86 | 48.62 | 53.42 | 50.35 | 62.72 | 61.92 | 61.82 |
| 17 | BaselineExtendingPokemons | 77.42 | 82.93 | 80.06 | 39.65 | 41.7 | 40.06 | 41.75 | 51.34 | 44.83 | 57.46 | 60.84 | 58.95 |
| 18 | Baseline | 76.2 | 76.86 | 76.46 | 36.64 | 38.75 | 37.0 | 37.71 | 46.29 | 40.03 | 54.77 | <u>56.38</u> | 55.25 |

Table 12: Detailed results for Korean track.

A.8 Dutch (NL)

| Rank | Team | | Lown | ER | OR | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | DAMO-NLP | 97.92 | 98.0 | 97.96 | 81.16 | 80.39 | 80.46 | 83.17 | 84.26 | 83.65 | 90.95 | 90.14 | 90.5 |
| 2 | USTC-NELSLIP | 92.14 | 90.74 | 91.43 | 82.63 | 81.09 | 81.64 | 86.3 | 87.87 | 86.95 | 88.56 | 86.86 | 87.67 |
| 3 | RACAI | 89.68 | 89.73 | 89.7 | 63.9 | 63.4 | 62.83 | 70.34 | 72.81 | 71.2 | 78.82 | 78.3 | 78.41 |
| 4 | Sliced | 89.08 | 89.42 | 89.25 | 61.81 | 63.1 | 61.87 | 69.15 | 72.56 | 70.41 | 77.55 | 77.95 | 77.66 |
| 5 | MaChAmp | 88.03 | 88.65 | 88.33 | 61.35 | 62.83 | 61.44 | 67.87 | 71.78 | 69.47 | 76.72 | 77.43 | 76.99 |
| 6 | Infrrd.ai | 91.32 | 85.54 | 88.31 | 64.73 | 56.72 | 59.74 | 70.51 | 68.1 | 69.08 | 80.5 | 73.04 | 76.4 |
| 7 | YNUNLP | 88.95 | 88.21 | 88.56 | 59.39 | 59.79 | 58.78 | 67.04 | 70.12 | 68.25 | 76.19 | 75.82 | 75.82 |
| 8 | brotherhood | 88.86 | 88.05 | 88.44 | 53.74 | 52.63 | 52.35 | 58.5 | 63.87 | 60.22 | 73.96 | 72.46 | 73.04 |
| 9 | PA Ph&Tech | 87.49 | 86.76 | 87.11 | 51.28 | 55.73 | 52.76 | 56.39 | 66.13 | 59.98 | 71.06 | 73.32 | 72.05 |
| 10 | MarSan | 86.5 | 87.67 | 87.06 | 52.0 | 52.51 | 50.26 | 56.61 | 61.27 | 58.27 | 71.18 | 71.98 | 71.13 |
| 11 | L3i | 86.65 | 87.73 | 87.15 | 50.22 | 50.15 | 49.39 | 54.56 | 60.34 | 56.74 | 70.96 | 71.32 | 70.96 |
| 12 | CSECU-DSG | 84.82 | 81.82 | 83.24 | 50.84 | 42.96 | 45.53 | 59.8 | 55.21 | 57.11 | 71.74 | 65.0 | 67.94 |
| 13 | EURECOM | 82.05 | 84.25 | 83.1 | 45.27 | 46.43 | 44.8 | 49.11 | 56.91 | 52.23 | 66.11 | 67.75 | 66.7 |
| 14 | BaselineExtendingPokemons | 81.63 | 84.91 | 83.22 | 37.41 | 39.6 | 38.11 | 40.77 | 52.49 | 44.79 | 61.77 | 65.07 | 63.25 |
| 15 | Baseline | 80.66 | 81.63 | 81.12 | 37.16 | 36.88 | 36.44 | 43.4 | 49.9 | 45.95 | 62.04 | 62.25 | 62.01 |
| 16 | Sartipi-Sedighin | 80.21 | 81.07 | 80.6 | 29.57 | 30.59 | 29.78 | 34.69 | 45.4 | 36.96 | 57.86 | 59.07 | 58.37 |

Table 13: Detailed results for Dutch track.

A.9 Russian (RU)

| Rank | Team | | Lowni | ER | OR | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | DAMO-NLP | 96.37 | 96.84 | 96.6 | 85.89 | 84.55 | 85.0 | 86.89 | 87.42 | 87.03 | 91.93 | 91.14 | 91.5 |
| 2 | USTC-NELSLIP | 85.22 | 83.22 | 84.2 | 83.16 | 81.71 | 82.23 | 85.37 | 86.71 | 85.91 | 84.85 | 82.89 | 83.82 |
| 3 | RACAI | 82.19 | 82.07 | 82.12 | 66.92 | 63.51 | 63.93 | 76.5 | 72.78 | 74.2 | 75.86 | 73.83 | 74.6 |
| 4 | Sliced | 80.65 | 82.48 | 81.55 | 63.54 | 63.66 | 62.97 | 72.14 | 71.22 | 71.27 | 73.59 | 74.11 | 73.73 |
| 5 | YNUNLP | 81.41 | 80.01 | 80.67 | 64.38 | 62.83 | 62.64 | 71.95 | 69.98 | 70.17 | 74.09 | 72.28 | 72.99 |
| 6 | MaChAmp | 78.65 | 81.28 | 79.94 | 62.64 | 63.11 | 62.04 | 68.82 | 69.12 | 68.38 | 72.0 | 73.06 | 72.37 |
| 7 | brotherhood | 80.59 | 80.92 | 80.75 | 57.67 | 56.22 | 56.26 | 64.75 | 65.26 | 63.52 | 71.0 | 69.84 | 70.27 |
| 8 | NetEase.AI | 81.07 | 77.42 | 79.19 | 60.42 | 54.74 | 56.89 | 64.69 | 65.51 | 63.45 | 72.61 | 67.44 | 69.79 |
| 9 | EURECOM | 80.26 | 80.11 | 80.17 | 54.56 | 51.04 | 51.82 | 63.33 | 63.7 | 61.24 | 69.74 | 67.19 | 68.21 |
| 10 | MarSan | 77.99 | 79.42 | 78.68 | 52.33 | 55.01 | 53.1 | 57.5 | 63.79 | 58.09 | 66.83 | 68.44 | 67.49 |
| 11 | L3i | 78.64 | 78.91 | 78.77 | 52.76 | 49.85 | 50.69 | 56.76 | 60.27 | 57.01 | 67.89 | 65.82 | 66.72 |
| 12 | CSECU-DSG | 75.86 | 78.26 | 77.04 | 44.29 | 45.97 | 44.57 | 53.87 | 58.07 | 54.23 | 62.6 | 63.9 | 63.08 |
| 13 | BaselineExtendingPokemons | 71.28 | 76.78 | 73.92 | 41.76 | 45.55 | 43.03 | 44.28 | 53.55 | 47.22 | 58.04 | 62.4 | 60.0 |
| 14 | Baseline | 70.58 | 74.55 | 72.47 | 42.57 | 44.93 | 43.45 | 46.36 | 52.95 | 48.01 | 58.42 | 60.96 | 59.59 |
| 15 | AutoNER | 62.52 | 65.16 | 63.66 | 37.35 | 40.19 | 37.88 | 51.05 | 55.08 | 52.22 | 51.79 | 54.33 | 52.7 |

Table 14: Detailed results for Russian track.

A.10 Turkish (TR)

| Rank | Team | | Lown | ER | OR | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | DAMO-NLP | 96.45 | 96.42 | 96.43 | 86.86 | 85.39 | 85.85 | 89.22 | 88.4 | 88.76 | 89.79 | 87.82 | 88.69 |
| 2 | USTC-NELSLIP | 90.32 | 89.8 | 90.05 | 84.22 | 82.7 | 83.17 | 87.64 | 88.1 | 87.83 | 86.62 | 84.7 | 85.52 |
| 3 | SU-NLP | 83.53 | 85.11 | 84.29 | 76.0 | 61.07 | 67.57 | 75.13 | 64.87 | 68.73 | 78.86 | 66.43 | 72.02 |
| 4 | RACAI | 87.45 | 88.83 | 88.13 | 65.72 | 64.73 | 64.04 | 74.65 | 73.1 | 73.59 | 71.81 | 70.25 | 70.42 |
| 5 | Sliced | 86.72 | 88.51 | 87.6 | 62.81 | 63.47 | 62.31 | 70.77 | 71.38 | 70.92 | 69.17 | 69.22 | 68.77 |
| 6 | MaChAmp | 84.63 | 86.93 | 85.75 | 61.48 | 62.81 | 61.37 | 65.26 | 68.63 | 66.63 | 67.55 | 68.3 | 67.58 |
| 7 | YNUNLP | 86.59 | 86.99 | 86.78 | 61.14 | 61.04 | 59.66 | 73.32 | 69.45 | 70.8 | 68.17 | 67.05 | 66.81 |
| 8 | ML-HUB | 84.31 | 86.92 | 85.55 | 61.11 | 59.47 | 59.62 | 56.0 | 68.23 | 59.21 | 66.51 | 65.98 | 65.79 |
| 9 | L3i | 85.6 | 86.99 | 86.28 | 57.3 | 57.15 | 56.65 | 63.23 | 65.47 | 63.89 | 64.85 | 64.26 | 64.28 |
| 10 | MarSan | 84.73 | 86.67 | 85.68 | 52.39 | 56.12 | 53.49 | 56.27 | 60.51 | 57.01 | 60.22 | 62.7 | 61.09 |
| 11 | brotherhood | 85.27 | 86.86 | 86.01 | 50.88 | 52.78 | 51.18 | 57.21 | 62.29 | 58.72 | 59.42 | 60.68 | 59.71 |
| 12 | EURECOM | 82.97 | 85.45 | 84.18 | 47.75 | 50.08 | 48.41 | 48.96 | 55.71 | 50.97 | 55.93 | 57.86 | 56.57 |
| 13 | CSECU-DSG | 81.86 | 79.8 | 80.76 | 56.5 | 40.42 | 46.26 | 58.08 | 48.79 | 52.18 | 64.57 | 49.25 | 55.3 |
| 14 | Sartipi-Sedighin | 79.69 | 85.74 | 82.52 | 42.23 | 47.34 | 43.71 | 45.77 | 53.34 | 48.6 | 50.77 | 55.81 | 52.69 |
| 15 | Baseline | 75.87 | 79.21 | 77.49 | 36.2 | 39.91 | 37.0 | 39.19 | 44.33 | 40.62 | 45.31 | 48.28 | 46.25 |
| 16 | BaselineExtendingPokemons | 77.39 | 82.64 | 79.86 | 33.63 | 38.92 | 35.4 | 35.41 | 43.94 | 38.09 | 42.74 | 48.32 | 44.97 |

Table 15: Detailed results for Turkish track.

A.11 Chinese (ZH)

| Rank | Team | | Lown | ER | OR | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | USTC-NELSLIP | 92.76 | 89.42 | 91.01 | 77.96 | 74.73 | 75.64 | 85.94 | 84.84 | 85.37 | 83.94 | 80.07 | 81.69 |
| 2 | CASIA | 88.52 | 81.48 | 84.61 | 81.04 | 72.75 | 75.88 | 86.56 | 80.62 | 83.37 | 84.77 | 76.13 | 79.7 |
| 3 | OPDAI | 85.14 | 85.44 | 85.27 | 75.46 | 75.81 | 74.69 | 80.9 | 83.93 | 82.24 | 80.54 | 79.47 | 79.54 |
| 4 | DAMO-NLP | 89.75 | 87.87 | 88.77 | 74.41 | 73.09 | 72.24 | 80.57 | 80.97 | 80.1 | 80.64 | 77.45 | 78.06 |
| 5 | NetEase.AI | 89.73 | 85.48 | 87.47 | 75.69 | 70.89 | 72.01 | 77.71 | 78.92 | 77.84 | 81.52 | 75.63 | 77.77 |
| 6 | CMB AI Lab | 90.18 | 86.67 | 88.37 | 74.36 | 64.08 | 68.54 | 76.66 | 75.66 | 75.53 | 81.28 | 72.29 | 76.36 |
| 7 | NCUEE-NLP | 85.28 | 81.26 | 83.1 | 70.9 | 68.38 | 68.5 | 75.33 | 76.8 | 75.27 | 77.01 | 72.99 | 74.18 |
| 8 | QTrade AI | 88.76 | 85.43 | 86.98 | 69.19 | 66.37 | 66.3 | 76.88 | 77.45 | 76.88 | 76.91 | 72.82 | 74.0 |
| 9 | CSECU-DSG | 84.85 | 83.33 | 84.04 | 59.16 | 59.61 | 58.05 | 65.15 | 71.02 | 66.86 | 68.55 | 67.61 | 67.22 |
| 10 | Multilinguals | 84.48 | 83.01 | 83.72 | 59.48 | 59.2 | 57.91 | 61.93 | 71.1 | 64.78 | 68.39 | 67.22 | 66.95 |
| 11 | L3i | 84.5 | 82.14 | 83.25 | 59.63 | 59.46 | 58.07 | 63.71 | 70.65 | 65.08 | 68.62 | 67.07 | 66.91 |
| 12 | Sliced | 85.54 | 84.25 | 84.86 | 58.6 | 56.1 | 55.02 | 64.92 | 67.65 | 65.09 | 67.99 | 65.07 | 65.21 |
| 13 | Infrrd.ai | 82.98 | 77.89 | 80.19 | 59.28 | 56.65 | 56.03 | 62.74 | 70.05 | 64.26 | 67.83 | 64.16 | 64.68 |
| 14 | MaChAmp | 83.38 | 81.82 | 82.55 | 57.16 | 55.83 | 54.48 | 61.16 | 65.41 | 61.14 | 66.45 | 63.88 | 63.81 |
| 15 | EURECOM | 83.53 | 81.39 | 82.25 | 57.51 | 54.4 | 53.25 | 63.81 | 68.65 | 64.31 | 66.89 | 63.43 | 63.4 |
| 16 | RACAI | 86.53 | 83.53 | 84.91 | 58.07 | 52.36 | 51.29 | 65.45 | 65.12 | 63.34 | 68.17 | 62.05 | 62.7 |
| 17 | YNUNLP | 83.01 | 82.63 | 82.79 | 53.44 | 51.46 | 50.3 | 64.27 | 67.0 | 64.48 | 63.99 | 61.41 | 61.38 |
| 18 | brotherhood | 85.04 | 81.55 | 83.11 | 53.03 | 49.84 | 49.69 | 58.74 | 62.61 | 59.25 | 64.08 | 60.05 | 60.86 |
| 19 | MarSan | 81.95 | 80.59 | 81.19 | 48.76 | 46.19 | 44.49 | 57.56 | 61.96 | 58.11 | 60.15 | 57.1 | 56.64 |
| 20 | SPDB Innovation Lab | 80.88 | 79.4 | 80.06 | 45.56 | 46.47 | 43.97 | 53.92 | 59.42 | 54.94 | 57.25 | 57.09 | 55.74 |
| 21 | BaselineExtendingPokemons | 74.57 | 78.13 | 76.23 | 43.8 | 44.51 | 41.39 | 52.72 | 56.93 | 51.41 | 54.44 | 55.06 | 52.8 |
| 22 | Baseline | 73.7 | 73.18 | 73.29 | 43.39 | 42.43 | 40.54 | 45.66 | 53.57 | 46.53 | 53.51 | 52.32 | 51.3 |

Table 16: Detailed results for Chinese track.

| Rank | Team | | Lown | ER | Or | CAS-N | ER | | Msq-N | NER | | Averag | ge |
|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| 1 | USTC-NELSLIP | 95.5 | 94.99 | 95.21 | 89.1 | 88.64 | 88.74 | 93.32 | 93.39 | 93.22 | 93.21 | 92.61 | 92.9 |
| 2 | DAMO-NLP | 93.88 | 93.36 | 93.57 | 88.37 | 87.25 | 87.68 | 91.39 | 90.24 | 90.56 | 92.35 | 91.24 | 91.79 |
| 3 | CMB AI Lab | 93.68 | 91.22 | 92.35 | 79.89 | 68.21 | 73.2 | 85.02 | 76.56 | 80.0 | 88.4 | 81.27 | 84.62 |
| 4 | QTrade AI | 93.21 | 90.36 | 91.65 | 78.06 | 71.21 | 73.93 | 82.86 | 77.44 | 79.42 | 87.12 | 82.01 | 84.35 |
| 5 | SeqL | 91.55 | 90.92 | 91.16 | 67.04 | 65.81 | 65.89 | 76.32 | 75.28 | 74.93 | 81.1 | 79.72 | 80.29 |
| 6 | IIE_KDSEC | 87.45 | 88.35 | 87.8 | 67.28 | 67.25 | 66.88 | 75.48 | 76.15 | 75.29 | 79.52 | 79.74 | 79.59 |
| 7 | RACAI | 89.43 | 89.6 | 89.42 | 65.78 | 65.48 | 65.29 | 74.53 | 74.51 | 73.87 | 79.58 | 79.23 | 79.37 |
| 8 | UM6P-CS | 87.7 | 88.16 | 87.82 | 67.08 | 66.62 | 66.5 | 75.06 | 74.57 | 74.11 | 79.38 | 79.08 | 79.21 |
| 9 | EURECOM | 86.63 | 87.25 | 86.82 | 63.58 | 62.71 | 62.71 | 73.99 | 74.11 | 73.28 | 77.84 | 77.37 | 77.6 |
| 10 | OPDAI | 87.26 | 85.98 | 86.45 | 61.87 | 61.12 | 61.0 | 72.78 | 71.82 | 71.49 | 77.79 | 77.23 | 77.46 |
| 11 | YNUNLP | 85.85 | 87.03 | 86.33 | 62.48 | 62.85 | 62.12 | 72.23 | 72.62 | 71.77 | 76.64 | 76.98 | 76.78 |
| 12 | UC3M-PUCPR | 87.8 | 86.74 | 87.15 | 60.94 | 58.86 | 59.48 | 71.92 | 70.74 | 70.57 | 77.15 | 75.64 | 76.36 |
| 13 | brotherhood | 87.84 | 87.51 | 87.57 | 60.83 | 60.13 | 59.87 | 71.28 | 70.51 | 70.0 | 76.62 | 75.45 | 75.91 |
| 14 | MaChAmp | 85.37 | 86.66 | 85.82 | 58.05 | 60.8 | 58.66 | 69.41 | 69.87 | 68.55 | 73.85 | 75.4 | 74.52 |
| 15 | Sliced | 86.96 | 88.05 | 87.41 | 54.91 | 55.8 | 54.4 | 68.51 | 67.59 | 66.63 | 72.67 | 73.23 | 72.74 |
| 16 | CMNEROne | 83.05 | 83.24 | 82.97 | 51.68 | 52.34 | 51.36 | 63.81 | 64.02 | 63.05 | 70.41 | 70.62 | 70.44 |
| 17 | L3i | 73.32 | 71.49 | 71.9 | 56.08 | 56.22 | 55.53 | 66.74 | 66.4 | 65.79 | 68.93 | 68.73 | 68.7 |
| 18 | Cardiff NLP | 72.56 | 73.5 | 72.66 | 57.17 | 58.84 | 57.45 | 67.71 | 69.29 | 67.96 | 67.4 | 69.03 | 68.07 |
| 19 | BaselineExtendingPokemons | 72.97 | 72.47 | 72.31 | 56.13 | 55.7 | 55.45 | 67.01 | 66.59 | 66.01 | 67.92 | 68.27 | 67.99 |
| 20 | SPDB Innovation Lab | 76.07 | 76.58 | 76.08 | 51.73 | 52.82 | 51.78 | 64.59 | 65.22 | 64.05 | 66.96 | 67.8 | 67.32 |
| 21 | MarSan | 73.27 | 70.17 | 70.76 | 54.73 | 56.43 | 54.75 | 65.63 | 66.03 | 64.59 | 67.36 | 67.41 | 67.03 |
| 22 | CSECU-DSG | 68.11 | 68.02 | 67.62 | 53.46 | 53.4 | 52.53 | 63.54 | 63.26 | 62.32 | 64.23 | 64.36 | 64.03 |
| 23 | Baseline | 74.03 | 74.23 | 73.72 | 38.85 | 37.13 | 37.15 | 51.45 | 50.92 | 49.86 | 59.1 | 57.66 | 58.14 |

A.12 Code-Mixed (MIX)

Table 17: Detailed results for Code-Mixed track.

A.13 Multilingual (MULTI)

| ſeam | | L | OWNE | R | 0 |)RCAS- | NER | | Msq-1 | NER | | Avg. | |
|-----------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| | | Р | R | F1 | Р | R | F1 | Р | R | F1 | Р | R | F1 |
| | BN | 86.4 | 85.64 | 86.01 | 79.18 | 76.72 | 77.77 | 71.85 | 69.23 | 70.28 | 79.14 | 77.2 | 78.02 |
| | DE | | 94.51 | | | 82.11 | | | 86.01 | | | 87.54 | |
| | EN | 96.52 | 96.66 | 96.59 | | 81.45 | | 82.4 | | 83.04 | | 87.33 | |
| ط | ES | | 95.82 | | | 79.07 | | | 86.22 | | | 87.04 | |
| 1. DAMO-NLP | FA | 95.94 | 96.97 | 96.45 | | 82.85 | | 86.15 | | 86.11 | 88.36 | 88.74 | 88.42 |
| ġ | HI | 84.64 | 83.8 | 84.2 | 82.42 | 80.96 | 81.46 | 87.74 | 88.59 | 88.1 | 84.93 | 84.45 | 84.58 |
| A | KO | 96.59 | 97.07 | 96.83 | 79.29 | 79.7 | 79.18 | 80.88 | 84.72 | 82.6 | 85.59 | 87.17 | 86.2 |
| Ď | NL | 97.65 | 97.78 | 97.72 | 79.1 | 79.03 | 78.56 | 84.46 | 84.16 | 84.27 | 87.07 | 86.99 | 86.85 |
| Ξ. | RU | 96.0 | 96.6 | 96.3 | | 81.52 | | | 85.92 | | | 88.01 | |
| | TR | | 97.87 | | | 82.18 | | | 84.86 | | | 88.31 | |
| | ZH | 88.37 | 87.9 | 88.12 | 67.74 | 66.83 | 65.59 | 78.02 | 79.74 | 78.09 | 78.05 | 78.16 | 77.27 |
| | Avg. | 93.61 | 93.69 | 93.65 | 79.94 | 79.31 | 79.16 | 83.04 | 83.61 | 83.12 | 85.53 | 85.54 | 85.31 |
| | BN | 87.48 | 85.7 | 86.57 | 83.99 | 81.65 | 82.29 | 76.6 | 73.16 | 74.71 | 82.69 | 80.17 | 81.19 |
| | DE | 95.8 | 95.1 | 95.45 | 80.0 | 79.0 | 79.25 | | 85.36 | | | 86.49 | |
| Ð | EN | | 91.63 | | | 76.11 | | | 84.03 | | | 83.92 | |
| SL | ES | | 88.11 | | | 79.38 | | | 87.69 | | | 85.06 | |
| 2. USTC-NELSLIP | FA | 86.23 | | 85.54 | | 86.34 | | | 91.14 | | | 87.46 | |
| Ż | HI | | 83.83 | | 84.65 | | 83.17 | | 90.64 | | | 85.76 | |
| Ϋ́ | KO | | 90.44 | | | 81.15 | | | 87.29 | | | 86.29 | |
| S | NL | | 90.93 | | 82.65 | | 81.81 | | 86.71 | | | 86.35 | |
| 2 | RU | 84.8 | 83.42 | | | 81.15 | | | 86.67 | | | 83.75 | |
| | TR | | 89.77 | | | 82.58 | | | 87.53 | | | 86.63 | |
| | ZH | | 89.98 | | | 72.83 | | | 82.84 | | | 81.88 | |
| | Avg. | 90.0 | | 89.25 | 82.16 | | 80.92 | 86.0 | | 85.75 | | 84.89 | |
| | BN | 85.09 | | 85.08 | | 68.98 | | | 63.96 | | 73.8 | 72.68 | |
| | DE | | 92.36 | | | 72.64 | | | 76.61 | | | 80.54 | |
| | EN | | 89.02 | | 67.71 | | 67.14 | | 72.45 | | | 76.26 | |
| AI | ES | | 86.53 | | | 71.78 | | 77.0 | | 78.03 | 79.1 | 79.46 | |
| 3. QTrade AI | FA HI | | 81.97 | | | 70.69 | | | 76.16 | | | 76.27 | |
| Ira | KO | | 83.48 87.49 | | | 70.98 67.34 | | | 81.06 75.64 | | 78.66 | 76.82 | 78.41 |
| 5 | NL | 90.99 | | 87.52 90.54 | | 72.37 | | | 77.82 | | 80.21 | | 79.88 |
| ς. | RU | 83.38 | | 90.34 82.89 | | 72.91 | | | 76.97 | | 79.7 | 77.43 | |
| | TR | | 88.64 | | | 73.22 | | | 77.84 | | | 79.9 | 80.07 |
| | ZH | | 85.55 | | | 66.02 | | 77.85 | | 77.34 | | 76.29 | |
| | Avg. | 87.36 | | 86.97 | | 70.38 | | | 75.99 | | 78.3 | 77.66 | |
| | BN | 86.08 | 84.98 | 85.51 | 67.19 | 64.55 | 65.63 | 60.09 | 61.73 | 60.53 | 71.12 | 70.42 | 70.56 |
| | DE | | 91.98 | | 10 10 | 68.72 | <0 - - | 72.43 | - < - | 73.71 | | 78.97 | |
| | EN | 90.42 | 88.95 | 89.67 | | 63.63 | | | 72.79 | 70.85 | | 75.12 | |
| | ES | | 86.19 | | | 68.01 | | | 78.55 | | | 77.58 | |
| | FA | | 81.32 | | | 67.58 | | | 73.81 | | | 74.24 | |
| L. | HI | 01 01 | 077 | 83.73 | 69.59 | 67.18 | 68.01 | 76.47 | 80.6 | 78.26 | | 76.82 | |
| SeqL | | | 82.7 | | | | | | | | 74 (0 | 75 70 | 74.07 |
| 4. SeqL | KO | 87.59 | 87.27 | 87.42 | 65.93 | 64.75 | 64.9 | 70.51 | 75.32 | | | 75.78 | |
| 4. SeqL | KO NL | 87.59 91.14 | 87.27 89.69 | 87.42 90.41 | 65.93 68.73 | 64.75 67.82 | 64.9 67.92 | 70.51 73.22 | 76.14 | 74.11 | 77.7 | 77.89 | 77.48 |
| 4. SeqL | KO NL RU | 87.59 91.14 84.08 | 87.27 89.69 81.8 | 87.42 90.41 82.91 | 65.93 68.73 72.86 | 64.75 67.82 69.85 | 64.9 67.92 70.68 | 70.51 73.22 78.32 | 76.14 76.7 | 74.11 76.91 | 77.7 78.42 | 77.89 76.12 | 77.48 76.83 |
| 4. SeqL | KO NL RU TR | 87.59 91.14 84.08 89.37 | 87.27 89.69 81.8 88.01 | 87.42 90.41 82.91 88.68 | 65.93 68.73 72.86 70.95 | 64.75 67.82 69.85 69.69 | 64.9 67.92 70.68 69.88 | 70.51 73.22 78.32 73.83 | 76.14 76.7 76.25 | 74.11 76.91 74.8 | 77.7 78.42 78.05 | 77.89 76.12 77.98 | 77.48 76.83 77.79 |
| 4. SeqL | KO NL RU TR ZH | 87.59 91.14 84.08 89.37 88.15 | 87.27 89.69 81.8 88.01 85.89 | 87.42 90.41 82.91 88.68 86.95 | 65.93 68.73 72.86 70.95 63.15 | 64.75 67.82 69.85 69.69 59.56 | 64.9 67.92 70.68 69.88 59.44 | 70.51 73.22 78.32 73.83 71.81 | 76.14 76.7 76.25 72.57 | 74.11 76.91 74.8 71.1 | 77.7 78.42 78.05 74.37 | 77.89 76.12 77.98 72.67 | 77.48 76.83 77.79 72.5 |
| 4. SeqL | KO NL RU TR ZH Avg. | 87.59 91.14 84.08 89.37 88.15 87.86 | 87.27 89.69 81.8 88.01 85.89 86.25 | 87.42 90.41 82.91 88.68 86.95 87.03 | 65.93 68.73 72.86 70.95 63.15 68.29 | 64.75 67.82 69.85 69.69 59.56 66.49 | 64.9 67.92 70.68 69.88 59.44 66.86 | 70.51 73.22 78.32 73.83 71.81 71.74 | 76.14 76.7 76.25 72.57 74.61 | 74.11 76.91 74.8 71.1 72.59 | 77.7 78.42 78.05 74.37 75.96 | 77.89 76.12 77.98 72.67 75.78 | 77.48 76.83 77.79 72.5 75.5 |
| 4. SeqL | KO NL RU TR ZH Avg. BN | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 | 76.14 76.7 76.25 72.57 74.61 55.27 | 74.11 76.91 74.8 71.1 72.59 59.97 | 77.7 78.42 78.05 74.37 75.96 75.76 | 77.89 76.12 77.98 72.67 75.78 63.34 | 77.48 76.83 77.79 72.5 75.5 68.56 |
| 4. SeqL | KO NL RU TR ZH Avg. BN DE | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 |
| | KO NL RU TR ZH Avg. BN DE EN | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 72.4 |
| | KO NL RU TR ZH Avg. BN DE EN ES | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 72.4 74.4 |
| | KO NL RU TR ZH Avg. BN DE EN ES FA | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 85.07 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 80.51 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 82.66 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 72.96 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 56.35 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 62.92 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 77.93 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 65.99 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 70.8 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 78.65 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 67.62 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 72.4 74.4 72.13 |
| | KO NL RU TR ZH Avg. BN DE EN ES FA HI | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 85.07 87.89 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 80.51 79.94 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 82.66 83.66 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 72.96 73.64 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 56.35 57.26 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 62.92 63.76 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 77.93 82.92 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 65.99 74.45 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 70.8 78.35 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 78.65 81.48 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 67.62 70.55 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 72.4 74.4 72.13 75.26 |
| | KO NL RU TR ZH Avg. BN DE EN ES FA HI KO | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 85.07 87.89 89.46 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 80.51 79.94 84.83 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 82.66 83.66 87.06 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 72.96 73.64 71.92 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 56.35 57.26 55.66 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 62.92 63.76 61.62 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 77.93 82.92 79.96 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 65.99 74.45 67.73 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 70.8 78.35 72.91 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 78.65 81.48 80.45 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 67.62 70.55 69.41 | 77.48 76.83 77.79 72.5 75.5 68.56 76.65 72.4 74.4 72.13 75.26 73.86 |
| CMB AI Lab | KO NL RU TR ZH Avg. BN DE EN ES FA HI KO NL | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 85.07 87.89 89.46 92.65 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 80.51 79.94 84.83 88.07 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 82.66 83.66 87.06 90.29 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 72.96 73.64 71.92 72.96 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 56.35 57.26 55.66 57.99 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 62.92 63.76 61.62 63.43 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 77.93 82.92 79.96 80.4 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 65.99 74.45 67.73 68.32 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 70.8 78.35 72.91 73.26 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 78.65 81.48 80.45 82.0 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 67.62 70.55 69.41 71.46 | 77.48 76.83 77.79 72.5 68.56 76.65 72.4 74.4 72.13 75.26 73.86 75.66 |
| | KO NL RU TR ZH Avg. BN DE EN ES FA HI KO | 87.59 91.14 84.08 89.37 88.15 87.86 89.09 94.33 91.86 89.97 85.07 87.89 89.46 92.65 84.39 | 87.27 89.69 81.8 88.01 85.89 86.25 81.88 89.61 87.1 84.68 80.51 79.94 84.83 | 87.42 90.41 82.91 88.68 86.95 87.03 85.32 91.9 89.4 87.21 82.66 83.66 87.06 90.29 82.57 | 65.93 68.73 72.86 70.95 63.15 68.29 72.13 73.18 68.42 71.83 72.96 73.64 71.92 72.96 | 64.75 67.82 69.85 69.69 59.56 66.49 52.88 58.05 51.66 56.53 56.35 57.26 55.66 | 64.9 67.92 70.68 69.88 59.44 66.86 60.4 63.61 57.75 62.11 62.92 63.76 61.62 63.43 64.69 | 70.51 73.22 78.32 73.83 71.81 71.74 66.07 81.46 77.06 78.19 77.93 82.92 79.96 80.4 84.19 | 76.14 76.7 76.25 72.57 74.61 55.27 69.55 64.82 70.48 65.99 74.45 67.73 | 74.11 76.91 74.8 71.1 72.59 59.97 74.44 70.07 73.89 70.8 78.35 72.91 73.26 75.59 | 77.7 78.42 78.05 74.37 75.96 75.76 82.99 79.12 80.0 78.65 81.48 80.45 82.0 80.85 | 77.89 76.12 77.98 72.67 75.78 63.34 72.4 67.86 70.56 67.62 70.55 69.41 | 77.48 76.83 77.79 72.5 68.56 76.65 72.4 74.4 72.13 75.26 73.86 73.86 75.66 74.28 |

| | Avg. | 89.67 84.43 86.93 | 72.33 55.88 62.0 | 78.73 67.28 72.13 | 80.25 69.19 73.69 |
|---------------|----------|----------------------------------------|--------------------------------------|----------------------------------------|---------------------------------------|
| | BN | 81.82 81.7 81.75 | 62.2 59.46 60.15 | 61.75 58.43 59.8 | 68.59 66.53 67.24 |
| | DE | 90.69 90.55 90.62 | 63.99 64.33 63.51 | 73.59 72.19 72.64 | 76.09 75.69 75.59 |
| | EN | 87.81 87.46 87.63 | 59.2 58.28 58.05 | 69.68 68.15 68.81 | 72.23 71.3 71.5 |
| | ES | 86.06 85.57 85.81 | 63.52 63.03 62.49 | 73.01 73.74 73.13 | 74.2 74.11 73.81 |
| CS | FA | 80.46 80.72 80.58 | 63.04 62.53 62.37 | 69.88 71.14 70.07 | 71.13 71.46 71.01 |
| -d | HI | 81.21 80.49 80.83 | 64.59 61.92 62.33 | 79.6 76.31 77.83 | 75.13 72.91 73.66 |
| 6. UM6P-CS | KO | 84.56 86.02 85.28 | 59.03 58.9 58.33 | 66.54 70.03 67.97 | 70.04 71.65 70.53 |
| D | NL | 89.13 88.99 89.05 | 63.86 63.77 63.09 | 72.86 71.28 71.91 | 75.28 74.68 74.69 |
| 6. | RU | 81.19 81.65 81.41 | 66.65 64.66 64.71 | 76.58 72.15 73.96 | 74.81 72.82 73.36 |
| | TR | 87.33 87.73 87.53 | 65.65 65.2 64.58 | 76.34 74.47 75.28 | 76.44 75.8 75.8 |
| | ZH | 84.55 83.4 83.97 | 60.37 57.44 56.97 | 69.06 71.16 69.74 | 71.32 70.67 70.22 |
| | Avg. | 84.98 84.93 84.95 | 62.92 61.77 61.51 | 71.72 70.82 71.01 | 73.21 72.51 72.49 |
| | BN | 82.81 82.79 82.79 | 62.85 60.41 61.11 | 59.47 60.58 59.86 | 68.38 67.93 67.92 |
| | DE | 91.27 91.07 91.17 | 63.67 63.11 62.63 | 70.67 72.1 71.04 | 75.2 75.43 74.95 |
| | EN | 87.83 88.18 88.01 | 59.72 58.49 58.29 | 67.49 69.47 68.27 | 71.68 72.04 71.52 |
| | ES | 83.38 83.45 83.4 | 61.91 61.09 60.66 | 67.61 73.13 69.95 | 70.96 72.56 71.34 |
| ۲ | FA | 79.7 82.46 81.03 | 63.68 62.93 62.85 | 68.12 70.83 68.97 | 70.5 72.07 70.95 |
| Č | HI | 82.33 81.99 82.15 | 65.02 63.16 63.46 | 75.29 77.86 76.27 | 74.21 74.34 73.96 |
| 7. RACAI | KO | 85.51 87.23 86.34 | 59.83 59.88 58.95 | 67.11 70.08 68.36 | 70.82 72.4 71.22 |
| Ч. | NL | 89.08 89.5 89.29 | 63.63 63.22 62.66 | 69.13 70.72 69.75 | 73.95 74.48 73.9 |
| | RU | 80.36 82.19 81.26 | 66.4 63.83 63.98 | 75.57 73.34 74.1 | 74.11 73.12 73.11 |
| | TR | 86.53 88.54 87.52 | 65.51 64.64 64.21 | 72.34 73.61 72.8 | 74.79 75.6 74.84 |
| | ZH | 84.72 84.42 84.57 | 59.53 57.11 56.4 | 66.33 70.17 67.17 | 70.19 70.56 69.38 |
| | Avg. | 84.87 85.62 85.23 | 62.89 61.62 61.38 | 69.01 71.08 69.69 | 72.25 72.78 72.1 |
| | BN | 82.43 83.67 83.02 | 60.67 60.32 60.1 | 59.19 59.87 59.05 | 67.43 67.95 67.39 |
| | DE | 91.24 91.47 91.35 | 62.09 63.47 62.06 | 70.23 72.8 71.19 | 74.52 75.91 74.87 |
| | EN | 87.7 88.63 88.16 | 57.69 58.55 57.49 | 66.69 68.7 67.5 | 70.69 71.96 71.05 |
| СЪ | ES | 85.4 86.71 86.04 | 61.36 62.47 61.2 | 68.96 74.82 71.23 | 71.91 74.67 72.82 |
| Cardiff NLP | FA | 79.43 82.98 81.16 | 60.08 61.88 60.55 | 66.17 71.89 68.33 | 68.56 72.25 70.01 |
| liff | HI | 82.11 82.29 82.18 | 63.18 63.07 62.6 | 73.93 78.68 75.94 | 73.07 74.68 73.57 |
| arc | КО | 84.79 87.72 86.22 | 55.74 58.53 56.38 | 66.13 70.77 68.25 | 68.88 72.34 70.29 |
| 8. C | NL | 89.03 90.18 89.59 | 61.04 62.53 61.12 | 68.23 72.6 70.03 | 72.77 75.1 73.58 |
| œ | RU | 79.89 82.87 81.35 | 62.96 62.97 62.03 | 73.59 72.84 72.74 | 72.14 72.89 72.04 |
| | TR | 86.6 89.3 87.92 | 62.78 63.69 62.28 | 72.14 73.33 72.59 | 73.84 75.44 74.26 |
| | ZH | 85.06 85.05 85.05 | 55.35 55.0 53.08 | 64.74 69.65 66.51 | 68.38 69.9 68.21 |
| | Avg. | 84.88 86.44 85.64 | 60.27 61.13 59.9 | 68.18 71.45 69.4 | 71.11 73.01 71.64 |
| | BN | 82.89 83.11 82.97 | 59.22 57.37 57.58 | 56.15 57.69 56.51 | 66.09 66.06 65.68 |
| | DE | 90.83 90.88 90.85 | 61.76 62.8 61.72 | 70.31 71.86 70.87 | 74.3 75.18 74.48 |
| | EN | 87.58 87.91 87.74 | 57.15 57.24 56.36 | 67.62 68.84 67.97 | 70.78 71.33 70.69 |
| | ES | 85.59 85.81 85.69 | 60.51 61.49 60.28 | 69.32 73.36 70.77 | 71.81 73.55 72.25 |
| Sliced | FA | 79.75 82.35 81.03 81.16 81.29 81.21 | 59.67 61.46 60.2 | 63.45 68.85 65.38 | 67.62 70.89 68.87 72.36 73.1 72.24 |
| Slie | HI KO | 84.49 86.53 85.5 | 62.7 61.39 61.23 55.3 57.96 55.91 | 73.22 76.61 74.29 64.05 68.25 65.92 | 72.36 73.1 72.24 67.95 70.91 69.11 |
| .6 | NL | 88.7 89.21 88.95 | 61.48 62.92 61.64 | 69.04 72.58 70.42 | 73.07 74.9 73.67 |
| | RU | 80.34 82.38 81.34 | 64.09 64.0 63.41 | 74.2 73.51 73.43 | 72.88 73.29 72.73 |
| | TR | 86.6 88.45 87.5 | 62.71 63.5 62.27 | 70.09 70.85 70.33 | 73.13 74.27 73.36 |
| | ZH | 85.86 84.44 85.1 | 58.35 55.95 54.95 | 65.57 68.28 65.85 | 69.93 69.56 68.63 |
| | Avg. | 84.89 85.67 85.26 | 60.27 60.55 59.6 | 67.55 70.06 68.34 | 70.9 72.09 71.06 |
| | BN | 82.17 81.64 81.86 | 59.9 56.97 57.87 | 58.43 57.74 57.53 | 66.84 65.45 65.75 |
| | DE | 90.17 90.43 90.3 | 62.06 62.48 61.57 | 69.19 72.44 70.21 | 73.8 75.12 74.02 |
| | EN | 87.3 87.48 87.39 | 57.62 57.44 56.75 | 66.92 69.35 67.66 | 70.61 71.42 70.6 |
| EC | ES | 85.51 85.07 85.28 | 61.75 62.09 61.25 | 67.08 73.81 69.43 | 71.45 73.66 71.98 |
| SC | FA | 79.36 81.72 80.5 | 60.97 60.08 59.99 | 63.57 68.11 64.71 | 67.96 69.97 68.4 |
| 10. IIE_KDSEC | HI | 81.06 80.14 80.59 | 63.67 61.61 62.21 | 73.87 77.78 75.2 | 72.86 73.18 72.66 |
| Щ | КО | 84.54 86.11 85.3 | 57.64 58.01 57.34 | 65.12 70.12 67.09 | 69.1 71.41 69.91 |
|). I | NL | 88.41 89.01 88.7 | 61.86 62.45 61.45 | 68.59 71.4 69.5 | 72.95 74.28 73.22 |
| 10 | RU | 79.81 81.62 80.7 | 65.4 64.32 64.15 | 72.79 72.06 71.48 | 72.67 72.66 72.11 |
| | TR | 86.37 88.14 87.24 | 63.1 62.88 62.25 | 68.35 70.43 68.9 | 72.61 73.82 72.8 |
| | ZH | 85.15 82.83 83.91 | 58.91 54.57 54.43 | 66.85 68.59 66.58 | 70.31 68.66 68.31 |
| | Avg. | 84.53 84.93 84.71 | 61.17 60.26 59.93 | 67.34 70.17 68.03 | 71.01 71.78 70.89 |
| | | | | | |

| | BN | 82 24 | 82.26 | 82.23 | 60.92 | 57.93 | 58.85 | 59.92 | 56.44 | 57.4 | 67.7 | 65.54 | 66 16 |
|-----------------|------|-------|----------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| | DE | | 90.47 | | | 61.23 | | | 71.47 | | | 74.39 | |
| | | | | | | | | | | | | | |
| | EN | | 87.39 | | | 55.95 | | | 66.78 | | | 70.04 | |
| | ES | 86.07 | 85.34 | 85.7 | 61.03 | 60.65 | 60.09 | 68.97 | 73.12 | 70.36 | 72.02 | 73.04 | 72.05 |
| ĿD | FA | 80.28 | 80.42 | 80.34 | 59.67 | 59.43 | 58.96 | 65.17 | 66.57 | 65.2 | 68.37 | 68.81 | 68.17 |
| 11. B.E.P | HI | 80.81 | 80.26 | 80.5 | 63.6 | 60.79 | 61.29 | 76.33 | 75.39 | 75.51 | 73.58 | 72.15 | 72.43 |
| В | KO | | 85.84 | | | 57.65 | | 65.8 | 68.49 | | | 70.66 | |
| Ξ | NL | | 88.79 | | 61.39 | | 60.85 | | 70.13 | | | 73.47 | |
| | | | | | | | | | | | | | |
| | RU | | 80.97 | | | 63.15 | | | 72.41 | | | 72.18 | |
| | TR | | 87.56 | | | 61.74 | | | 71.26 | 71.45 | | 73.52 | 73.31 |
| | ZH | 84.83 | 83.46 | 84.12 | 58.83 | 53.95 | 53.3 | 67.71 | 67.5 | 65.38 | 70.46 | 68.3 | 67.6 |
| | | 05.00 | 04.0 | 04.0 | (0.74 | 50.45 | 50.10 | 60.54 | 60.05 | (0.0) | 71.40 | 71.1 | 70.00 |
| | Avg. | 85.02 | 84.8 | 84.9 | 60.74 | 59.45 | 59.12 | 68.54 | 69.05 | 68.06 | 71.43 | 71.1 | 70.69 |
| | BN | 82 70 | 82.06 | 82 12 | 50.68 | 50.37 | 54.03 | 58 27 | 53.76 | 55 55 | 66.02 | 62.06 | 64.0 |
| | | | | | | | | | | | | | |
| | DE | | 90.33 | | 59.6 | | 57.75 | | 68.07 | | 72.8 | 71.73 | |
| | EN | | 87.95 | | | 49.03 | | | 65.24 | | 67.8 | 67.4 | 67.32 |
| | ES | 84.12 | 83.18 | 83.64 | 53.54 | 50.86 | 51.5 | 64.2 | 66.7 | 64.98 | 67.29 | 66.91 | 66.71 |
| Ā | FA | 80.9 | 81.79 | 81.33 | 57.93 | 52.49 | 54.77 | 62.88 | 63.56 | 62.62 | 67.24 | 65.95 | 66.24 |
| Ð | HI | 81.59 | 80.68 | | | 53.24 | | | 72.98 | | 71.67 | 68.97 | 70.02 |
| OPDAI | KO | | 86.11 | | | 51.67 | | 65.73 | | 65.58 | | 67.83 | |
| 12. 0 | | | | | | | | | 68.08 | | | | |
| Ĥ | NL | | 89.03 | | | 56.36 | | | | | | 71.16 | |
| | RU | | 81.61 | | | 55.46 | | | 66.93 | | 72.04 | | 69.57 |
| | TR | 86.58 | 87.47 | 87.02 | 60.69 | 56.24 | 57.92 | 66.58 | 66.02 | 66.1 | 71.28 | 69.91 | 70.35 |
| | ZH | 86.47 | 85.8 | 86.08 | 68.15 | 66.7 | 66.1 | 82.63 | 84.11 | 83.11 | 79.08 | 78.87 | 78.43 |
| | | | ~ ~ ~ ~ | | | | | | | | | 60.00 | 60.40 |
| | Avg. | 85.24 | 85.09 | 85.16 | 59.45 | 54.47 | 56.28 | 67.37 | 67.38 | 67.0 | 70.69 | 68.98 | 69.48 |
| | BN | 82.62 | 82.8 | 82.7 | 60.63 | 57.71 | 58 47 | 57 14 | 57.33 | 56.89 | 66 79 | 65.95 | 66.02 |
| | DE | | 89.99 | | | 59.81 | | 68.52 | | 68.86 | | 73.37 | |
| | | | | | | | | | | | | | |
| | EN | | 87.65 | | 56.32 | | 55.43 | | 66.72 | | | 70.06 | |
| 13. brotherhood | ES | 83.11 | | 82.7 | | 56.52 | | | 69.44 | | | 69.42 | |
| .hc | FA | 80.22 | 82.03 | 81.11 | 57.32 | 56.51 | 56.39 | 61.97 | 66.71 | 63.37 | 66.5 | 68.42 | 66.95 |
| Jer | HI | 81.19 | 80.59 | 80.88 | 61.79 | 59.02 | 59.66 | 72.26 | 76.23 | 73.69 | 71.74 | 71.95 | 71.41 |
| oth | KO | | 86.45 | | | 56.91 | | 63.5 | 68.34 | | | 70.57 | |
| pr | NL | | 88.94 | | | 59.62 | | | 68.78 | | | 72.44 | |
| ώ. | | | | | | | | | | | | | |
| | RU | | 81.61 | | 60.8 | | 59.18 | | 67.56 | | | 69.54 | |
| | TR | | 88.05 | | | 59.96 | | | 70.86 | | | 72.95 | |
| | ZH | 85.77 | 83.95 | 84.8 | 58.11 | 53.34 | 53.1 | 64.98 | 68.96 | 66.02 | 69.62 | 68.75 | 67.97 |
| | 4 | 0160 | <u> </u> | 010 | 59.06 | 577 | 57 16 | 6100 | 60 20 | 65.00 | 60 5 1 | 70.31 | 60.42 |
| | Avg. | 84.08 | 84.94 | 04.0 | 58.96 | 57.7 | 57.46 | 04.00 | 68.29 | 03.99 | 09.31 | /0.51 | 09.42 |
| | BN | 81.56 | 81.36 | 81.42 | 59.37 | 56.93 | 57.76 | 55.92 | 56.57 | 54.9 | 65.62 | 64.95 | 64.69 |
| | DE | | 90.55 | | | 63.31 | | | 73.92 | | | 75.93 | |
| | EN | 86.88 | | 87.1 | | 56.77 | | 63.0 | 67.82 | | | 70.66 | |
| | | | 85.01 | | | 60.47 | | | 73.28 | | | 72.92 | |
| an | ES | | | | | | | | | | | | |
| Sa | FA | | | 78.97 | | | 54.96 | | | 59.0 | | | |
| 14. MarS | HI | | 78.53 | | | 57.04 | | | 74.39 | | | 69.99 | |
| Z | KO | 83.58 | 84.05 | 83.78 | 55.49 | 55.08 | 54.6 | 61.29 | 65.69 | 62.36 | 66.79 | 68.28 | 66.91 |
| 4 | NL | | 88.54 | | | 61.31 | | | 72.15 | | 71.74 | | 72.32 |
| | RU | | 79.57 | | 61.8 | 59.8 | 60.18 | 69.08 | | 67.99 | | 69.79 | |
| | TR | 85.94 | | 86.34 | | 62.63 | | | 69.66 | | | 73.03 | |
| | | | | | | | | | | | | | |
| | ZH | 84.14 | 03.5 | 83.68 | 58.8 | 55.45 | 55.24 | 00.48 | 70.16 | 07.09 | 09.81 | 69.63 | 00.07 |
| | Avg. | 84.09 | 84.06 | 84.03 | 59.21 | 58.52 | 58.21 | 64.86 | 68.82 | 65.6 | 69.39 | 70.47 | 69.28 |
| | 0 | | | | | | | | | | | | |
| | BN | | 80.51 | | | 55.61 | | | 55.59 | | 66.09 | | 64.52 |
| | DE | 88.97 | 88.84 | 88.9 | 60.59 | 59.98 | 59.48 | 67.99 | 68.85 | 67.77 | 72.52 | 72.56 | 72.05 |
| | EN | 86.12 | 86.47 | 86.29 | 57.76 | 55.14 | 55.44 | 65.26 | 67.91 | 66.29 | 69.72 | 69.84 | 69.34 |
| | ES | 84.4 | | 84.51 | | 59.01 | | | 69.94 | | 69.73 | | 69.84 |
| .ai | FA | | 81.21 | | | 56.92 | | | 65.37 | | | 67.83 | |
| 5. Infrrd.ai | HI | | 78.11 | | | | | | 76.04 | | | 70.81 | |
| nfr | | | | | | 58.28 | | | | | | | |
| -T - | KO | | 84.76 | | 57.2 | | 55.88 | | 67.99 | | | 69.73 | |
| 15. | NL | | 87.82 | | | 60.09 | | | 70.08 | | | 72.66 | |
| | RU | 78.57 | 81.61 | 80.04 | 63.47 | 61.07 | 61.3 | 72.86 | 71.51 | 71.29 | 71.63 | 71.4 | 70.88 |
| | TR | | 87.51 | | | 60.12 | | | 68.31 | | | 71.98 | |
| | ZH | 81.81 | | 81.78 | | 53.22 | | | 65.99 | | | 67.04 | |
| | | 01.01 | 01.7 | 01.70 | 50.59 | 55.22 | J2.0-T | 02.12 | 05.99 | 52.74 | 00.04 | 07.04 | 05.00 |
| | | | | | | | | | | | | | |
| | Avg. | | 83.94 | 83.43 | 59.88 | 57.81 | 57.8 | 66.1 | 67.96 | 66.5 | 69.65 | 69.9 | 69.24 |

| | BN | 82.01 80.5 81.17 | 57.25 51.15 52.6 | 56.97 52.24 53.64 65.41 61.3 62.47 |
|---------------------------|------|-------------------|-------------------|-----------------------------------------------------------------------------|
| | | | | |
| | DE | 91.22 90.04 90.61 | 63.33 61.86 61.18 | 75.42 72.88 73.66 76.66 74.93 75.15 |
| | EN | 88.34 87.01 87.65 | 58.52 55.63 55.5 | 67.91 66.85 67.23 71.59 69.83 70.13 |
| Sa | ES | 87.7 84.1 85.82 | 61.96 59.84 59.27 | 70.31 70.84 70.51 73.33 71.59 71.87 |
| 16. HaveNoldea | | | | |
| ol | FA | 79.44 76.16 77.65 | 53.27 50.53 50.87 | 60.15 60.02 58.97 64.28 62.24 62.49 |
| Z | HI | 80.84 78.05 79.34 | 57.6 53.9 54.46 | 74.25 71.63 72.43 70.89 67.86 68.74 |
| IVE | KO | 83.01 81.49 82.16 | 51.96 47.59 48.03 | 63.46 63.07 62.57 66.14 64.05 64.26 |
| Ηĩ | | | | |
| | NL | 89.99 87.36 88.63 | 63.26 61.13 60.44 | 72.94 70.77 71.56 75.39 73.09 73.55 |
| 16 | RU | 82.66 80.28 81.41 | 65.65 61.35 61.82 | 77.69 70.21 73.32 75.33 70.61 72.19 |
| | TR | 87.22 86.57 86.87 | 63.86 61.5 61.22 | 72.33 68.81 70.2 74.47 72.29 72.76 |
| | ZH | | | |
| | ZΠ | 83.1 71.09 76.34 | 56.85 48.15 49.48 | 65.75 63.87 63.44 68.57 61.03 63.09 |
| | A | 85.05 82.06 83.42 | 59.41 55.69 55.9 | 68.83 66.47 67.05 71.1 68.07 68.79 |
| | Avg. | 83.03 82.00 83.42 | 39.41 33.09 33.9 | 08.85 00.47 07.05 71.1 08.07 08.75 |
| | BN | 79.9 78.85 79.33 | 54.31 53.41 53.54 | 54.12 55.24 53.31 62.78 62.5 62.06 |
| | | | | |
| | DE | 89.29 89.02 89.15 | 59.53 60.47 59.52 | 67.38 71.35 68.7 72.06 73.61 72.46 |
| | EN | 86.11 86.01 86.06 | 55.55 55.49 55.0 | 62.94 66.83 64.13 68.2 69.44 68.4 |
| 7 | ES | 85.28 84.32 84.8 | 59.56 60.08 59.23 | 65.83 69.89 67.37 70.22 71.43 70.47 |
| 6 | | | | |
| Ŭ | FA | 77.82 78.34 78.06 | 55.33 54.92 54.87 | 57.17 62.99 58.75 63.44 65.42 63.89 |
| Ĥ | HI | 78.35 76.35 77.29 | 55.74 54.91 55.04 | 69.25 72.53 69.84 67.78 67.93 67.39 |
| JF | KO | 82.15 83.8 82.96 | 53.99 53.35 53.26 | 58.34 65.45 61.01 64.83 67.53 65.74 |
| 17. EURECOM | | | | |
| ~ | NL | 87.59 87.71 87.65 | 59.47 60.39 59.45 | 65.7 69.59 67.04 70.92 72.56 71.38 |
| 1 | RU | 79.1 79.66 79.37 | 60.59 59.66 59.48 | 69.16 69.25 68.08 69.62 69.52 68.97 |
| | TR | 84.83 86.71 85.76 | 60.28 60.43 59.82 | 65.44 69.03 66.69 70.18 72.05 70.75 |
| | ZH | 83.34 82.02 82.66 | 57.82 54.94 54.48 | 64.36 68.51 65.12 68.51 68.49 67.42 |
| | ып | 03.34 02.02 82.00 | 51.02 54.74 54.48 | U.JU U0.JI UJ.12 U0.JI U0.49 07.42 |
| | Avg. | 83.07 82.98 83.01 | 57.47 57.1 56.7 | 63.61 67.33 64.55 68.05 69.13 68.08 |
| | Avg. | 05.07 02.90 05.01 | 51.71 51.1 50.1 | 00.03 07.03 0 7 .03 00.03 07.13 08.00 |
| | BN | 78.09 79.68 78.87 | 52.07 51.38 50.89 | 53.49 53.03 52.46 61.22 61.36 60.74 |
| | | | | |
| | DE | 89.24 89.56 89.4 | 62.45 64.2 62.79 | 70.25 72.33 71.08 73.98 75.36 74.42 |
| | EN | 85.93 86.97 86.44 | 58.08 58.48 57.7 | 64.65 69.39 66.2 69.56 71.62 70.11 |
| đ | ES | 84.81 85.53 85.15 | 61.77 63.48 61.94 | 67.16 72.73 69.23 71.25 73.91 72.1 |
| 18. MaChAmp | FA | 75.24 78.49 76.82 | 49.14 51.84 49.9 | 49.79 58.31 52.85 58.06 62.88 59.86 |
| Υ | | | | |
| Ū | HI | 76.69 78.04 77.35 | 56.29 56.45 55.72 | 67.68 73.68 70.04 66.89 69.39 67.7 |
| Ia | KO | 81.05 83.76 82.38 | 49.07 51.05 49.34 | 53.97 62.91 57.36 61.36 65.91 63.03 |
| 4 | NL | 87.56 88.34 87.94 | 61.45 63.0 61.62 | 68.38 72.58 70.23 72.46 74.64 73.26 |
| <u>8</u> | | | | |
| _ | RU | 78.31 81.24 79.74 | 62.04 62.51 61.46 | 68.92 68.97 68.14 69.75 70.91 69.78 |
| | TR | 84.48 87.23 85.81 | 61.76 63.15 61.68 | 64.52 67.95 65.9 70.25 72.78 71.13 |
| | ZH | 79.96 80.37 80.13 | 49.66 48.44 46.96 | 58.89 63.62 59.88 62.83 64.15 62.32 |
| | | | | |
| | Avg. | 81.94 83.56 82.73 | 56.71 57.63 56.36 | 62.52 66.86 63.94 67.06 69.36 67.68 |
| | | | | |
| | BN | 79.19 77.07 78.05 | 57.95 51.59 53.7 | 55.19 55.49 53.56 64.11 61.38 61.77 |
| | DE | 87.61 86.41 86.99 | 59.12 58.75 57.98 | 69.29 69.04 67.19 72.01 71.4 70.72 |
| | EN | 85.67 84.19 84.9 | 54.77 52.48 52.38 | 64.73 63.75 63.04 68.39 66.81 66.77 |
| | | | | |
| LP | ES | 85.22 81.31 83.2 | 57.7 56.3 55.91 | 66.15 68.41 66.0 69.69 68.67 68.37 |
| E | FA | 79.42 75.53 77.39 | 56.48 54.03 54.38 | 63.67 64.01 62.28 66.52 64.52 64.68 |
| 5 | HI | 77.69 74.36 75.93 | 59.47 56.21 57.07 | 71.12 73.9 71.03 69.43 68.16 68.01 |
| Z | KO | 81.56 80.87 81.18 | 56.52 54.11 54.28 | 59.42 65.49 60.53 65.83 66.82 65.33 |
| 19. YNUN | | | | |
| 6 | NL | 87.43 84.81 86.08 | 58.73 57.78 57.11 | 67.24 67.15 66.17 71.14 69.91 69.78 |
| - | RU | 81.74 75.93 78.72 | 62.54 58.78 59.31 | 70.27 68.38 67.57 71.52 67.69 68.53 |
| | TR | 84.4 83.52 83.95 | 60.08 57.53 57.37 | 66.84 67.32 65.46 70.44 69.46 68.93 |
| | ZH | 80.19 77.99 79.0 | 51.79 47.17 47.22 | 61.37 63.07 61.05 64.45 62.75 62.42 |
| | 20 | 00.17 /1.99 /9.0 | 51.17 41.11 41.22 | 01.57 05.07 01.05 04.45 02.75 02.42 |
| | Ava | 82.74 80.18 81.4 | 57.74 54.98 55.16 | 65.03 66.0 63.99 68.5 67.05 66.85 |
| | Avg. | 02.74 00.10 01.4 | 51.14 54.90 55.10 | 03.03 00.0 03.77 08.3 07.03 00.82 |
| | BN | 79.42 75.85 77.57 | 53.09 45.66 47.87 | 54.34 48.87 50.71 62.29 56.79 58.71 |
| | | | | |
| | DE | 88.21 85.58 86.87 | 55.3 52.95 52.98 | 66.38 63.79 64.55 69.96 67.44 68.13 |
| | EN | 86.21 82.8 84.44 | 52.18 48.88 49.18 | 61.27 57.99 59.06 66.55 63.22 64.23 |
| | ES | 85.31 80.72 82.92 | 55.12 51.71 52.0 | 63.9 62.0 62.66 68.11 64.81 65.86 |
| H | FA | 81.89 74.94 78.22 | 56.3 51.66 53.26 | 63.25 61.66 61.71 67.15 62.75 64.4 |
| Ģ | | | | |
| $\mathbf{S}_{\mathbf{Z}}$ | HI | 79.81 74.44 76.95 | 57.56 51.0 53.0 | 71.66 69.79 70.06 69.68 65.08 66.67 |
| 20. DS4DH | KO | 84.45 81.23 82.8 | 52.55 49.93 49.99 | 62.8 60.73 61.42 66.6 63.96 64.74 |
| Ö. | NL | 88.16 84.7 86.38 | 55.24 52.71 52.7 | 65.16 62.9 63.74 69.52 66.77 67.61 |
| Ñ | | | | |
| | RU | 82.52 75.96 79.09 | 59.17 54.36 55.35 | 68.95 62.22 64.87 70.22 64.18 66.44 |
| | TR | 86.83 83.17 84.96 | 56.56 52.84 53.15 | 67.34 62.2 64.38 70.25 66.07 67.5 |
| | ZH | 83.24 78.17 80.52 | 53.77 47.15 48.15 | 61.73 61.21 60.78 66.25 62.18 63.15 |
| | | | | |
| | Avg. | 84.19 79.78 81.88 | 55.17 50.8 51.6 | 64.25 61.21 62.18 67.87 63.93 65.22 |
| | . 0 | | | |
| - | | | | |

| | BN | 79.84 80.64 80.2 | 52.51 51.07 50.88 | 52.09 50.36 49.95 61.48 60.69 60. | .34 |
|------------|----------|----------------------------------------|----------------------------------------|--------------------------------------------------------------------------|-----|
| | DE | 87.67 88.32 87.99 | 52.24 53.77 52.18 | 60.43 65.32 61.79 66.78 69.14 67. | |
| | EN | 85.14 86.16 85.64 | 50.6 51.15 50.14 | 57.73 62.56 59.02 64.49 66.62 64. | |
| | ES | 83.81 84.02 83.91 | 52.05 52.73 51.33 | 57.96 64.4 60.21 64.61 67.05 65. | |
| | | 77.06 80.14 78.57 | | 57.45 62.04 58.86 62.59 65.29 63. | |
| 21. UPB | FA | | | | |
| 5 | HI | 77.53 77.68 77.58 | 55.0 54.26 53.98 | 65.64 69.92 66.47 66.06 67.29 66. | |
| 1. | KO | 81.16 84.35 82.71 | 50.74 51.9 50.41 | 56.73 62.38 58.56 62.88 66.21 63. | |
| (1 | NL | 86.73 87.61 87.14 | 53.31 53.99 52.73 | 59.68 64.38 61.06 66.57 68.66 66. | |
| | RU | 77.93 80.93 79.39 | 57.27 57.01 56.06 | 63.2 65.12 62.73 66.13 67.69 66. | |
| | TR | 83.19 85.37 84.26 | 53.39 52.94 52.04 | 58.02 59.78 57.85 64.87 66.03 64. | |
| | ZH | 82.89 82.21 82.49 | 52.98 50.47 48.96 | 58.15 63.05 58.42 64.67 65.24 63. | .29 |
| | Ava | 82.09 83.4 82.72 | 53.03 53.0 51.92 | 58.83 62.66 59.54 64.65 66.36 64. | 72 |
| | Avg. | 02.09 03.4 02.72 | 33.03 33.0 31.92 | 38.83 02.00 39.34 04.03 00.30 04. | .75 |
| | BN | 77.5 76.82 77.12 | 51.42 46.24 47.93 | 52.23 52.55 51.63 60.38 58.54 58. | .89 |
| | DE | 87.12 86.34 86.72 | 52.5 53.92 52.52 | 62.89 65.57 63.82 67.5 68.61 67. | .69 |
| _ | EN | 84.06 83.34 83.69 | 49.84 49.8 48.91 | 58.88 60.99 59.47 64.26 64.71 64. | .02 |
| g | ES | 82.93 81.62 82.26 | 51.62 52.18 51.02 | 60.08 64.29 61.72 64.88 66.03 65. | |
| Ą | FA | 77.28 77.87 77.55 | 52.12 51.76 51.45 | 58.85 63.0 59.66 62.75 64.21 62. | |
| Ď | HI | 76.99 75.54 76.23 | 56.3 54.03 54.51 | 67.76 70.11 67.08 67.01 66.56 65. | |
| CSECU-DSG | KO | 80.51 82.81 81.62 | 49.44 50.17 49.04 | 58.58 61.56 59.6 62.85 64.85 63. | |
| S | NL | 86.53 85.57 86.05 | 53.53 54.14 53.05 | 62.14 65.41 63.34 67.4 68.37 67. | |
| | | | | | |
| 22. | RU TD | 77.98 78.23 78.09 83.99 84.09 84.03 | 54.22 53.26 52.63 54.47 54.08 53.26 | | |
| | TR | | | 61.25 63.19 61.46 66.57 67.12 66. | |
| | ZH | 81.91 80.29 81.03 | 50.09 48.27 47.08 | 56.59 60.81 57.6 62.86 63.12 61. | .9 |
| | Avg. | 81.53 81.14 81.31 | 52.32 51.62 51.04 | 60.53 62.85 60.87 64.79 65.21 64. | .4 |
| - | | | | | |
| | BN | 77.78 77.27 77.49 | 52.46 49.81 50.37 | 49.13 48.34 48.07 59.79 58.47 58. | |
| | DE | 87.9 87.79 87.84 | 53.35 53.64 52.74 | 58.78 63.51 60.52 66.68 68.31 67. | |
| | EN | 84.65 85.02 84.83 | 50.6 50.22 49.68 | 54.44 59.15 56.25 63.23 64.8 63. | |
| П | ES | 83.59 82.96 83.27 | 52.78 52.49 51.58 | 55.14 61.31 57.59 63.84 65.59 64. | |
| - Y | FA | 75.33 77.73 76.47 | 50.9 51.12 50.45 | 54.1 60.42 56.47 60.11 63.09 61. | .13 |
| 23. NSU-AI | HI | 77.1 76.02 76.53 | 55.3 52.65 53.21 | 65.03 67.59 65.28 65.81 65.42 65. | .01 |
| Ž | KO | 81.62 83.14 82.35 | 53.53 52.63 52.3 | 57.73 61.64 59.15 64.29 65.8 64. | .6 |
| 33. | NL | 87.03 86.79 86.91 | 54.37 54.41 53.51 | 59.23 64.16 61.11 66.88 68.45 67. | .17 |
| (1 | RU | 78.68 79.38 79.01 | 58.83 56.94 57.01 | 64.38 66.72 64.85 67.29 67.68 66. | .96 |
| | TR | 83.23 84.38 83.79 | 54.85 53.59 53.2 | 57.77 59.41 58.08 65.28 65.79 65. | .02 |
| | ZH | 81.64 80.89 81.19 | 52.25 49.82 48.45 | 60.37 62.88 59.94 64.76 64.53 63. | |
| | | | | | |
| | Avg. | 81.69 81.94 81.79 | 53.57 52.48 52.05 | 57.83 61.38 58.85 64.36 65.27 64. | .23 |
| | BN | 75.59 75.54 75.54 | 45.87 41.92 42.27 | 53.4 47.64 49.55 58.29 55.03 55. | .79 |
| p | DE | 85.92 84.87 85.38 | 50.94 51.48 50.04 | 65.47 64.83 64.63 67.45 67.06 66. | |
| ation Lab | EN | 83.15 82.06 82.59 | 47.89 46.77 46.15 | 59.29 58.03 58.41 63.44 62.29 62. | |
| n | ES | 82.49 80.59 81.5 | 49.9 49.15 48.04 | 61.47 61.4 61.13 64.62 63.71 63. | |
| atic | FA | 76.55 76.23 76.35 | | 58.45 57.38 56.84 61.76 60.55 60. | |
| 0V2 | | | | | |
| SPDB Innov | HI | 75.35 73.81 74.51 | 55.39 51.67 52.38 | 72.27 68.99 70.21 67.67 64.83 65. | |
| B I | KO NI | 79.77 80.56 80.14 | 47.68 47.32 46.18 | 58.55 59.16 58.25 62.0 62.34 61. | |
| Ã | | 85.65 84.98 85.31 | 51.67 52.05 50.66 | 66.56 63.74 64.68 67.96 66.92 66. (8.18 (0.85 (2.58) (7.8) (2.02) (5. | |
| SF | RU | 78.46 76.82 77.63 | 56.74 54.1 53.82 | 68.18 60.85 63.58 67.8 63.92 65. | |
| 24. | TR | 83.54 83.65 83.58 | 53.9 53.08 52.11 | 64.62 61.86 62.75 67.35 66.2 66. | |
| 2 | ZH | 81.39 78.83 80.02 | 51.15 46.6 46.01 | 60.06 59.38 57.95 64.2 61.61 61. | .33 |
| | Avg. | 80.71 79.81 80.23 | 51.04 49.29 48.71 | 62.57 60.3 60.73 64.78 63.13 63. | .22 |
| | 0 | | | | |
| | BN | 73.57 72.55 72.84 | 47.0 42.43 43.79 | 38.16 39.75 38.04 52.91 51.58 51. | |
| | DE | 89.55 88.49 89.01 | 57.48 56.04 55.68 | 62.63 65.6 63.51 69.89 70.04 69. | |
| | EN | 85.81 85.55 85.67 | 53.37 50.62 50.86 | 54.89 55.68 54.55 64.69 63.95 63. | |
| | ES | 84.27 83.74 83.98 | 55.13 53.47 53.37 | 57.22 62.82 59.23 65.54 66.68 65. | .53 |
| 17 | FA | 75.71 75.4 75.51 | 47.17 43.21 44.43 | 48.19 53.31 49.09 57.02 57.31 56. | |
| L3i | HI | 70.72 68.68 69.54 | 46.78 42.45 43.33 | 49.58 56.2 50.6 55.69 55.78 54. | .49 |
| 25. | KO | 80.02 78.75 79.37 | 45.4 41.19 42.21 | 47.43 50.83 47.26 57.62 56.92 56. | .28 |
| 2 | NL | 87.12 87.18 87.13 | 57.05 55.68 55.37 | 60.83 64.2 61.96 68.33 69.02 68. | |
| | RU | 77.55 77.69 77.59 | 54.56 50.71 51.51 | 58.71 60.39 57.88 63.6 62.93 62. | .33 |
| | TR | 83.21 85.44 84.3 | 54.03 50.87 51.34 | 53.43 56.44 53.88 63.56 64.25 63. | |
| | ZH | 82.39 80.96 81.59 | 54.62 50.17 49.54 | 57.08 61.1 56.76 64.7 64.08 62. | |
| | | | | | |
| | Avg. | 80.9 80.4 80.59 | 52.05 48.8 49.22 | 53.47 56.94 53.89 62.14 62.05 61. | .23 |
| | | | | | |

| | BN | 73.32 74.14 | 73.54 | 39.28 | 36.45 | 37.49 | 39.87 | 41.36 | 40.03 | 50.83 | 50.65 | 50.35 |
|-----------------------|------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | DE | 83.69 82.35 | 82.93 | 41.91 | 40.47 | 40.63 | 49.96 | 53.5 | 50.94 | 58.52 | 58.77 | 58.17 |
| | EN | 79.78 78.97 | 79.29 | 41.19 | 38.93 | 39.36 | 44.36 | 49.88 | 45.8 | 55.11 | 55.93 | 54.82 |
| O | ES | 67.52 64.25 | 65.53 | 36.1 | 33.13 | 33.33 | 36.75 | 39.54 | 37.08 | 46.79 | 45.64 | 45.32 |
| lin | FA | 47.01 45.37 | 45.46 | 32.2 | 26.58 | 28.23 | 34.42 | 35.25 | 34.46 | 37.88 | 35.74 | 36.05 |
| <mark>Baseline</mark> | HI | 72.06 71.1 | 71.38 | 44.95 | 41.59 | 42.63 | 52.53 | 55.79 | 53.4 | 56.51 | 56.16 | 55.8 |
| | KO | 42.84 37.41 | 39.8 | 39.07 | 34.38 | 35.76 | 35.81 | 41.62 | 36.13 | 39.24 | 37.8 | 37.23 |
| <mark>26.</mark> | NL | 68.94 65.02 | 66.73 | 40.6 | 38.48 | 38.59 | 45.62 | 49.21 | 46.64 | 51.72 | 50.9 | 50.65 |
| | RU | 51.22 53.0 | 51.17 | 35.76 | 30.7 | 32.65 | 32.34 | 34.37 | 32.27 | 39.77 | 39.36 | 38.7 |
| | TR | 57.51 53.81 | 55.17 | 36.67 | 33.55 | 34.09 | 37.01 | 39.82 | 37.62 | 43.73 | 42.39 | 42.29 |
| | ZH | 77.29 77.5 | 77.36 | 42.83 | 42.68 | 41.32 | 46.75 | 54.27 | 49.89 | 55.62 | 58.15 | 56.19 |
| | Avg. | 65.56 63.9 | 64.4 | 39.14 | 36.09 | 36.73 | 41.4 | 44.96 | 42.21 | 48.7 | 48.32 | 47.78 |

Table 18: Detailed results for the Multi-lingual track. Full form of B.E.P. is BaselineExtendingPokemons.