AGB-DE: A Corpus for the Automated Legal Assessment of Clauses in German Consumer Contracts

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Abstract

Legal tasks and datasets are often used as benchmarks for the capabilities of language models. However, openly available annotated datasets are rare. In this paper, we introduce AGB-DE, a corpus of 3,764 clauses from German consumer contracts that have been annotated and legally assessed by legal experts. Together with the data, we present a first baseline for the task of detecting potentially void clauses, comparing the performance of an SVM baseline with three fine-tuned open language models and the performance of GPT-3.5. Our results show the challenging nature of the task, with no approach exceeding an F1-score of 0.54. While the fine-tuned models often performed better with regard to precision, GPT-3.5 outperformed the other approaches with regard to recall. An analysis of the errors indicates that one of the main challenges could be the correct interpretation of complex clauses, rather than the decision boundaries of what is permissible and what is not.

1 Introduction

Standard form consumer contracts, i.e. consumer contracts that are drafted unilaterally by a company, have huge significance for our economy, but also for consumer protection. Their review is a laborious task, performed by companies, law firms, governmental organizations, and nongovernmental organizations (NGOs). In recent years, researchers have investigated different computational approaches to automate parts of the contract reviewing process (see Section 2).

One of the big challenges for such research is the scarcity of contract data in general and annotated data in particular. Even more so for languages other than English. Annotating contracts with legal assessments is a laborious process that can only be performed by highly qualified experts and is therefore very expensive. Commercial providers of Large Language Models (LLMs), like OpenAI, **Florian Matthes**

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but also the scientific community, increasingly use legal tasks to assess (or promote) the capabilities of LLMs. For many of the existing datasets and tasks, it is questionable whether LLMs like GPT-3.5 have not been trained on them, which would question the validity of evaluations performed on them (Balloccu et al., 2024).

In this paper, we present a new corpus consisting of 3,764 clauses, 11,387 sentences, and 250,859 tokens from German consumer contracts. Each clause has been annotated by legal experts with a clause topic and whether the clause is valid or potentially void (see Section 3.2). A contract clause is a section in a contract that is usually separated explicitly through formatting from other clauses and deals with a specific provision. The corpus contains a total of 8,582 labels and is available on GitHub¹ and as Hugging Face dataset ².

In addition, we present a baseline for the task of identifying potentially void clauses, comparing an SVM, three open language models in different sizes, and GPT-3.5. Our results show the challenging nature of the task, with no approach exceeding an F1-score of 0.54. The best-performing model, AGBert, is also available for download³. While the fine-tuned models often performed better with regard to precision, GPT-3.5 outperformed the other approaches with regard to recall. An analysis of the errors indicates that one of the main challenges could be the correct interpretation of complex clauses, rather than the decision boundaries of what is permissible and what is not. The code that was used to prepare the datasets and train the models is also available on GitHub. We hope that the corpus will contribute to enabling future open and reproducible NLP research.

¹https://github.com/DaBr01/AGB-DE

²https://huggingface.co/datasets/d4br4/agb-de

³https://huggingface.co/d4br4/AGBert

2 Related Work

Legal tasks and datasets have become increasingly relevant for the evaluation of language models over the past years. From domain-specific models, like LEGAL-BERT (Chalkidis et al., 2020), to benchmark datasets, like LexGLUE (Chalkidis et al., 2022), culminating in the presentation of GPT-4 by OpenAI, where the alleged "legal skills" of the model have been one of the main communication points to show its improvement from the previous version (Achiam et al., 2023). Additionally, the question of whether a GPT model would be able to get through law school (Choi et al., 2021) or pass the bar exam (Katz et al., 2023) has been raised repeatedly in the last few years.

2.1 Legal Datasets

In general, there is a large number of legal data sets available. Mostly because many governments and institutions publish laws, court decisions, and similar legal documents digitally and under open licenses. However, only a small fraction of them has been manually annotated (Braun, 2023). Many supervised NLP tasks in the legal domain therefore rely on corpora that inherently contain labels or where labels can be automatically derived. That is, for example, the case for translation where parallel corpora of the European Union can be used (Skadiņš et al., 2014) or outcome prediction for court cases, where the final verdict can be easily extracted from the decision document (Chalkidis et al., 2019). Document types that are not regularly published by governments or institutions, like (consumer) contracts, are rare to find in corpora.

Manual annotation by legal experts is very expensive and therefore rare. While a number of such data sets exists (see Section 2.1.1 and 2.1.2), particularly in English, we are not aware of any corpora in different languages that have a size comparable to the AGB-DE corpus, which consists of 3,764 legally annotated clauses from 93 contracts.

2.1.1 Consumer Contracts

With 100 English Terms of Services and a total of 1,715 annotated clauses, the corpus provided by Ruggeri et al. (2022) is one of the biggest of its kind. Clauses are classified into fair and unfair clauses and among the unfair clauses five major categories are distinguished. Drawzeski et al. (2021) presented a similar sized corpus of 100 Terms of Services, however, consisting of only 25 distinct contracts each of which is available in four languages (English, Italian, German, and Polish).

Another large corpus of consumer contracts is the OP-115 Corpus by Wilson et al. (2016) which consists of 115 privacy policies from websites that have been annotated by law students with data practices that occur in the text. The MAPP corpus is an even larger privacy policy corpus with 155 privacy policies from mobile applications (Arora et al., 2022), which have been annotated in a similar fashion. Both contain only English contracts.

2.1.2 B2B Contracts

In the space of commercial (business-to-business) contracts, larger datasets are available. The CUAD dataset by Hendrycks et al. (2021) consists of 510 English commercial contracts in which 41 different types of legal clauses have been annotated. Chalkidis et al. (2017) provide a data set of 993 contracts that have been labeled with clause headings and 2,461 contracts that have been annotated with other types of contract elements by law students. Unlike, for example, the data set by Ruggeri et al. (2022), but also the AGB-DE corpus, these datasets were not annotated with a legal judgment but rather with regard to the topic of individual clauses.

2.2 Legal Assessment of Contract Clauses

Some of the above-mentioned data sets, but also other, mostly non-published data sets, have been used to train different NLP models in order to predict whether a given contract clause is valid or not. This is also the task we mainly had in mind when we built the AGB-DE corpus. Ruggeri et al. (2022) used a Memory-Augmented Neural Network to detect unfair clauses in Terms of Services and reported an accuracy of 0.526. Braun and Matthes (2021) used a fine-tuned BERT model to predict void clauses in Terms and Conditions of online shops and reported an accuracy of 0.9. Torre et al. (2020) used an SVM to detect missing clauses in privacy policies and reported a precision of 0.85 and a recall of 0.96. Most recently, Martin et al. (2024) presented a study that compares the performance of, among others, GPT4-32k with junior lawyers in locating legal issues in contracts. They report that GPT4 is not only faster and cheaper but also better (F1-score of 0.74) than junior lawyers (F1-score of 0.667).

3 Corpus

The corpus consists of 3,764 clauses from 93 standard form consumer contracts. In this section, the construction of the corpus is described. A detailed datasheet (Gebru et al., 2021) for the corpus can be found in Appendix F.

3.1 Data

The data was collected in 2021 and 2022 and annotated between 2021 and 2023. It consists of German⁴ standard form consumer contracts that are available online, such as Terms and Conditions of online shops, fitness studios, and telecommunication providers. The data was collected by the annotators, consumer protection lawyers (see Section 3.2 for more details), based on their professional interests. Each clause from each contract was manually copied into an Excel file together with the title of the clause and the URL to the contract text. In total, 93 contracts have been collected in that way.

3.2 Annotation

The dataset was annotated by five fully-qualified lawyers from two German NGOs with a focus on consumer protection. Each of the annotators had multiple years of experience in consumer protection law and consumer counseling. The annotations were made in an Excel file, which annotators preferred over dedicated annotation tools.

3.2.1 Topics

First, one or multiple topic labels were added to each clause. Subsequently, subtopic labels could be added to further specify the content of a clause. For this classification, we used the taxonomy introduced by Braun and Matthes (2022), which consists of 23 topic labels and 37 subtopic labels (see Appendix A for a list of the available labels). While each clause had to be annotated with at least one topic label, the annotators were instructed to only add subtopics where they found it fitting.

3.2.2 Validity

Afterwards, each clause was legally assessed by the expert annotators. A clause in a contract is *void*, i.e. cannot be enforced by the parties of the contract, if it contradicts governing law. Whether a clause is actually void depends on many things, including, in some cases, whether one of the parties is a

consumer or whether both parties are businesses. The final decision on whether a specific clause in specific circumstances is actually void can only be made by a court of law. Therefore, the instruction for the annotators was to label a clause as potentially void, if they think a consumer residing in Germany could successfully challenge the clause in court. For the remainder of this paper, if we say a clause is void, we mean that it was annotated as potentially void by the expert annotators. In addition to the assessment itself, which is binary (1 - potentially void, 0 - valid), the annotators can add a comment in the Excel file explaining their decision. By the wish of the annotators, these explanations are not part of the published corpus. It is also worth re-highlighting that the annotators work for NGOs that are dedicated to advocate for consumer rights and their interpretation of the law might therefore be more consumer-friendly than a lawyer who works for a big corporation.

Initially, a small subset of the data was annotated by two experts (one from each organization). In this initial annotation, the legal annotations were in agreement in 76% of the cases. Based on these initial annotations, the experts discussed and aligned their annotation strategies to increase the consistency of the annotations. During this process, two patterns underlying the disagreement became apparent. All disagreements that were found in this phase were based on a disagreement about the interpretation of laws or court rulings, rather than a disagreement about the interpretation of a clause, i.e. the text of the contract. The second pattern was that many of the disagreements were based on laws that use vague legal terms. Laws are often formulated vaguely on purpose. The German Civil Code for example deems clauses void that provide "unreasonably long payment deadlines" (§308 No. 1a). What might seem like bad law-making is done to make laws "future proof". Whether a payment deadline is unreasonably long, for example, changed significantly between the 1970s, when letters and bank transfers still took multiple days and today. It is up to courts to interpret these terms and these interpretations can also change over time. To increase the alignment of annotators, the annotations guidelines were extended with agreed interpretations of relevant legal provisions that contain such vague legal terms. Additionally, as a "catch-all" solution, a rule was introduced that when in doubt, e.g. because different courts ruled differently, the annotators will always use the more consumer-friendly

⁴The contracts are not only written in the German language but also tailored to the German market and its regulations.

interpretation. For the subsequent annotation of the complete corpus, each instance was annotated by one annotator. While it would have been preferable to have multiple annotators per instance, that was not feasible due to cost reasons. The total costs of the data collection and annotation for the AGB-DE corpus were approximately 110.000 EUR.

3.3 Anonymization

For ethical and legal reasons, we decided to anonymize the dataset before publishing it. While the original data does not contain any information from individuals, it does contain (publicly accessible) information from companies, like phone numbers, addresses, and tax IDs. We took multiple steps to remove this data from the contracts in order to make it harder to identify the company that drafted the contract. Companies can and do change their contracts over time, so we want to avoid consumers finding and reading an outdated version of a contract. Additionally, it is not unlikely that one or multiple assessments made by the annotators would not hold up in a court of law, either due to an unconscious mistake or due to the aforementioned bias with regard to the interpretation of the law. Wrongfully claiming a company uses void terms can potentially be harmful to their business and could implicate liabilities. The other way around, wrongfully claiming a clause is valid could potentially harm consumers if they rely on that assessment. Therefore we implemented ten anonymization steps:

- 1. Remove all clauses with the topic label party from the corpus (these clauses consist only of information about the contracting party, i.e. the company)
- 2. Replace all email addresses with "hello@example.com" using regular expressions (regex)
- 3. Replace all URLs with "www.example.com" using regex
- 4. Replace all international bank account numbers (IBANs) with "DE75512108001245126199" using regex
- 5. Replace all tax IDs with DE398517849 using regex
- 6. Replace all phone numbers with 00 00 12345678 using regex

- 7. Replace all ZIP codes with 00000 using regex
- 8. Replace all names of companies and organizations with "«NAME»" using Named Entity Recognition (NER)
- 9. Replace all city names with "«STADT»" (German for city) using NER
- 10. Replace all street names with "«STRASSE»" (German for street) using NER

While the first seven steps turned out to work very well and straight-forward (in total 84 party clauses have been removed and 120 email addresses, 231 URLs, 2 IBANs, 117 phone numbers, and 279 ZIP codes have been replaced), many of the available standard NER libraries turned out to not work very well for the texts. In the end, the FLAIR library (Akbik et al., 2019) with the ner-german-legal model (Leitner et al., 2019) turned out to be most suitable. With the help of the model, we were able to replace 724 names of organizations and companies, 418 city names, and 53 street names. However, a manual inspection revealed that an additional, manual, anonymization round was necessary. In this manual process an additional 1,338 company names, 38 city names, and 85 streets have been removed.

In order to avoid over-anonymization which could potentially result in decreased classification performance, a list of organizations and URLs were explicitly excluded from being removed or replaced. The list mainly included political bodies like the European Union and their URLs, shipping companies and their URLs, and payment provider and their URLs. An excerpt from the final corpus is shown in Table 1.

4 Corpus Analysis

The corpus consists of 93 contracts with 3,764 clauses (an average of 40 clauses per contract), which contain 11,387 sentences (avg. of 3 sentences per clause) and 250,859 tokens (avg. of 22 per sentence). Out of the 3,764 clauses present in the corpus, 179 (or 4.8%) have been annotated as potentially void. That is comparable, although slightly lower, than the 6% reported by Braun and Matthes (2021) on a much smaller dataset of 24 contracts. While that results in a corpus that is imbalanced, we believe it to be a realistic reflection of reality, where void clauses are also significantly less frequent than void clauses.

Id	Con.	Lang	Title	Text	Topics	Subtopics	Void
10	1	de	2. Widerrufs- belehrung	Sie tragen keine Kosten für die Rücksendung der Ware.	withdrawal	withdrawal: shipping- Costs	0
124	3	de	11. Gel- tungsbedin- gungen der AGB	Anstelle der unwirk- samen Vorschrift gilt eine Regelung, die der mit der unwirksamen Vorschrift verfolgten wirtschaftlichen Zweck- setzung am nächsten kommt.	severability		1
127	4	de	1. Allge- meines	1.4. Mit der Bestellung auf dieser Website bestätigen Sie, dass Sie volljährig und rechtsfähig sind, einen Verbrauchervertrag abzuschließen."	age		0
215	9	de	§6 - EIGEN- TUMSVOR- BEHALT	Die von «NAME» gelieferte Ware verbleibt bis zur vollständigen Bezahlung Eigentum von «NAME»	ret.OfTitle		0

Table 1: Excerpt from the corpus

Table 2 shows how the clauses are distributed among the topics and the percentage of potentially void clauses in each topic. Since a clause can belong to multiple topics and subtopics, the sum of the labels is greater than the number of clauses. 30 clauses have been annotated with more than one topic. Out of those 30, one clause has been annotated with three topics and one clause has been annotated with four topic labels, the other 28 have been annotated with two topic labels. Out of the 3,764 clauses, only 1,078 have been annotated with a subtopic. Partially, we believe that to be the result of the fact that it was not mandatory for the annotators to add a subtopic and that the focus of the annotation was clearly on the legal assessment. In total, the corpus contains 8,582 labels.

An analysis of the distribution of void clauses in relation to the topic shows that there are some classes which are particularly prone to be seen as potentially void by the experts. A deeper analysis, together with the experts, revealed that these are very often types of clauses that are particularly strictly regulated. The class changes, for example, captures clauses that relate to changes that are made to the contract after it came into force. Given that standard form contracts are already considered to "reflect an imbalance of contracting power" (Braun et al., 2019), it is not surprising that the possibilities for a company to change them after the customer agreed are very strictly regulated. Therefore, it makes sense that such clauses are exceedingly considered void by the annotators. Similar reasoning can be applied to other topics, like liability or severability clauses.

5 Automated Legal Assessment

In order to present a baseline for the main task for which the corpus was designed and evaluate the difficulty of the task, we compared different language models and an SVM for the classification of clauses into (potentially) void and valid.

5.1 Data Split

To do so, we created a dataset from the corpus, which is split into a training set of 80% (3,004 clauses) and a test set of 20% (755 clauses)⁵. We stratified the data split by both the topic labels and

⁵https://huggingface.co/datasets/d4br4/agb-de

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$\begin{array}{ccccccc} \mbox{prices:vat} & 36 & 0.00 \\ \mbox{retentionOfTitle} & 125 & 2.40 \\ \mbox{severability} & 35 & 11.43 \\ \mbox{textStorage} & 57 & 1.75 \\ \mbox{warranty} & 314 & 6.37 \\ \mbox{warranty:options} & 4 & 0.00 \\ \mbox{warranty:options} & 4 & 0.00 \\ \mbox{warranty:period} & 10 & 0.00 \\ \mbox{withdrawal} & 506 & 3.75 \\ \mbox{withdrawal:compensation} & 7 & 0.00 \\ \mbox{withdrawal:effects} & 45 & 0.00 \\ \mbox{withdrawal:effects} & 45 & 0.00 \\ \mbox{withdrawal:effects} & 51 & 0.00 \\ \mbox{withdrawal:form} & 25 & 0.00 \\ \mbox{withdrawal:model} & 4 & 0.00 \\ \mbox{withdrawal:period} & 33 & 0.00 \\ \mbox{withdrawal:shippingCosts} & 11 & 0.00 \\ \mbox{withdrawal:shippingMethod} & 7 & 0.00 \\ \mbox{Total lvl 1} & 3798 & 4.80 \\ \end{array}$			
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Table 2:	Distribution	of topics	s and y	void clauses
ruore 2.	Distribution	or topic.	, und	ora craabeb

the legal assessment to guarantee an equal representation of each class in both datasets. Five clauses from the original corpus were removed in this dataset because they were the only void instances of their clause type in the corpus, and it was, therefore, not possible to split them in the above-described fashion.

5.2 Undersampling

Because it was clear that the dataset would be challenging because of its imbalanced nature, we created a second dataset⁶, in which we used undersampling (Liu et al., 2008) to remove data from classes that are over-represented. In particular, the number of instances from each combination of topic and validity was limited to 100. I.e., if there were 40 void clauses of one topic and 120 valid clauses of the same topic, only 100 of the valid clauses would go into this second dataset. In this way, we ended up with a dataset that consists of 1,362 (80%) clauses for training and 345 (20%) for testing. The split of the data remained the same, i.e. we only removed data but did not change the distribution of existing data between the training and test sets. For easier distinction, we will refer to the first larger dataset as agb-de and to the undersampled dataset as agb-de-under.

5.3 Models

We used both datasets to train an SVM that uses tf-idf vectors of the clauses as input and fine-tune and evaluate four different language models:

- The BERT model bert-base-german-cased (Chan et al., 2020), which was also trained on the Open Legal Data dataset that consist of more than 100,000 German legal documents (Ostendorff et al., 2020)
- The multilingual RoBERTa model x1m-roberta-base (Conneau et al., 2019)
- The German GPT2 model gerpt2 (Minix-hofer, 2021)
- And finally gpt-3.5-turbo-0125, which was evaluated in a "zero-shot" fashion without fine-tuning

For the fine-tuning of the three open models, we conducted a manual hyperparameter search, starting with the standard hyperparameters for each

⁶https://huggingface.co/datasets/d4br4/ agb-de-under

model. The final hyperparameters that were used for the fine-tuning can be found in Appendix B, as well as in the training code that is published alongside the corpus. In order to further address the imbalance of the dataset, we also used a tailored loss function. For the fine-tuning of all models, we used class weights of 1.0 for valid and 100.0 for void clauses in the loss function. The prompt and API call used for the evaluation of GPT-3.5 can be found in Appendix C.

6 Evaluation

The results of the evaluation are shown in Table 3. The main metric that we focused on for the evaluation is the F1-score, which provides a balance between the two unequally distributed classes.

For the agb-de dataset, none of the models was able to handle the very imbalanced dataset well. The best-performing model on the dataset was the fine-tuned BERT model. While RoBERTa is usually better than BERT in handling imbalanced data (Younes and Mathiak, 2022), the RoBERTa model that we fine-tuned is a multilingual model, while the BERT model that we fine-tuned was specifically pre-trained on German legal data. The second best performance was achieved by the SVM with an F1-score of 0.31. For GPT-3.5, there was not much difference in the performance independent of the dataset: For both datasets, GPT-3.5 achieved the highest recall, at the cost of a very low precision. I.e., GPT-3.5 falsely classified the majority of clauses as potentially void (see also Figure 2d).

All models performed better on the agb-de-under dataset, showing that undersampling is a suitable strategy for the corpus. BERT again performed best with an F1-score of 0.54. To test whether the improvement performance on the undersampled dataset was caused by a better model and not just by the fact that, by chance, difficult items got removed from the test set, we also tested all models trained on the undersampled dataset on the original test set from the agb-de dataset. The results of this evaluation are shown in Appendix D. Except for the SVM, all models performed better when being trained on the undersampled dataset and evaluated on the full dataset compared to being trained and tested on the full dataset, indicating that removing excessive imbalanced training data can indeed lead to better models on this dataset.

7 Error Analysis

Figure 1 shows precision and recall for each model on the undersampled dataset for the largest topics in the corpus. The numbers show that the models perform very differently for the individual topics.

For liability, for example, no model was able to achieve a recall higher than 0.25. With 11% of void clauses, liability clauses are most frequently void among the large topics. For the expert annotators, liability clauses were relatively easy to annotate, because of very explicit regulations. § 309 No. 7 of the German Civil Code, for example, explicitly states that "an exclusion or limitation of liability for damage from injury to life, limb or health due to negligent breach of duty by the user" is void. Linguistically, however, an analysis of the liability clauses shows that they are often complicated, with multiple explicit inclusions and exclusions in one sentence, which could be a reason for the poor performance of most models.

While clauses of a certain topic can be void for different reasons, for some topics there are predominant patterns. Warranty clauses, in the corpus, for example, are predominantly void because they restrict the warranty in cases where defects are not reported within a specified (too short) time frame. Similarly, payment clauses are predominantly void because they introduce excessive fees for late payments. The BERT model was better at picking up these more repetitive patterns compared to the more nuanced other topics. The GPT-2 model achieved the highest precision for payment clauses, which have the largest share in the corpus, and therefore heavily influence the overall result. Overall, the performance differences between classes could indicate that using the topic labels as an additional feature could improve classification performance.

The performance of GPT-3.5 differs from the other models as it was more prone to generating false positives, i.e. flagging clauses as void that are actually valid. The prompt we used for GPT-3.5 not only asked it to perform the classification into potentially valid and void but also asked the model to provide an "explanation"⁷. While the texts provided are not an explanation in the sense that they make the reasons for the assessment transparent, it is still interesting to see that the issues described are most of the time correct, however, the assessment is still wrong, in both the text and the annotation. For a clause about withdrawals (corpus ID 5), GPT-3.5

⁷The "explanations" can be found in the GitHub repository.

Dataset	Model	Precision	Recall	F1-score
	s∨m	0.37	0.27	0.31
	bert-base-german-cased	0.50	0.27	0.35
agb-de	xlm-roberta-base	0.00	0.00	0.00
	gerpt2	0.71	0.14	0.23
	gpt-3.5-turbo-0125	0.06	0.92	0.11
	s∨m	0.40	0.32	0.36
arb da undan	bert-base-german-cased	0.51	0.57	0.54
agb-de-under	xlm-roberta-base	0.75	0.08	0.15
	gerpt2	0.64	0.43	0.52
	gpt-3.5-turbo-0125	0.13	0.92	0.22

Table 3: Results of the evaluation, best performance on a dataset is highlighted in bold



Figure 1: Precision and recall per topic on the agb-de-under dataset

		Predicted			Predicted			Predicted			Predicted	
		valid	void		valid	void		valid	void		valid	void
ual	valid	288	20	valid	307	1	valid	299	9	valid	71	237
Act	void	16	21	void	34	3	void	21	16	void	3	34
(a) bert-base-german-cased			(b) xlm-r	oberta-	base	(c) gerpt2		(d) gpt-3.	5-turbo	-0125	

Figure 2: Confusion matrices for the evaluation on the agb-de-under dataset

for example "explains": "The clause is potentially invalid as it could unfairly disadvantage the consumer. According to the law, the consumer must be able to exercise his right of withdrawal clearly and conspicuously, without any additional hurdles or conditions being imposed. By specifying here that registering a return under My Account is considered a revocation, this could limit the consumer's ability to exercise their right of revocation. It is important that the consumer can exercise his right of withdrawal without additional obligations." (see Appendix E.1 for the original German text) While the text by itself would be factually correct, it is not applicable to the clause in question. The clause clearly describes other ways to exercise the right to revoke a contract and explicitly states that it is not mandatory to use the "My Account" feature. In line with the text, the clause was falsely labeled as potentially void by GPT-3.5.

Similarly, for the clause "If the customer is a merchant [...] the place of jurisdiction for all disputes arising from this contract is the court responsible for the seller's place of business [...]." (corpus ID 3212) GPT-3.5 concludes the clause is potentially void, because "The clause puts the consumer at an unreasonable disadvantage because this clause binds the consumer to the company's place of jurisdiction". The legal reasoning of that is again correct, however, not applicable to the clause, because the clause only applies to merchants in which case it is valid. To test whether GPT-3.5 is aware that the clause is valid for merchants, we adapted the prompt to say that the system should imagine being a lawyer for a merchant (instead of a consumer) and indeed the response was "The clause is unlikely to be potentially invalid if the customer is an entrepreneur." More often than not, the main challenge for GPT-3.5 seems not to be missing legal "knowledge", but the incorrect interpretation of the clause, especially in cases where the clause contains elements that are optional or not applicable to all customers.

Another typical problem of LLMs in general can

be seen in the explanation generated for the clause with the corpus ID 10. Here, the model generates the following text: "According to Section 357 of the German Civil Code (BGB), a consumer may not be charged the costs of return shipping in the event of a revocation. Therefore, a clause requiring the consumer to bear the costs of return shipping is potentially invalid." (see Appendix E.2). Until 2014, it was indeed the case that "a consumer may not be charged the costs of return shipping in the event of a revocation" (at least for purchases over 40 EUR). However, today, §357 BGB explicitly states the opposite, i.e. that customers have to bear the costs of return shipping. However, texts that relate to the old legislation are probably more frequent in the data GPT-3.5 was trained on, which is data up to 2021.

8 Conclusion

In this paper, we have introduced the AGB-DE corpus, consisting of 3,764 clauses from German consumer contracts that have been annotated by legal experts. In addition to the corpus, we presented two datasets that have been derived from the corpus and have been split into training and test sets. The datasets can easily be used to train or fine-tune machine learning models. We have used these datasets to provide a benchmark on the corpus for the task of classifying whether a clause is valid or potentially void.

For the dataset that is representative of the distribution in the corpus, we showed that language models struggle with the imbalanced data and could not achieve an F1-score above 0.35. For the second dataset, which is more balanced through undersampling, we showed that open models like BERT and GPT2 were able to better identify void clauses achieving an F-1 score of 0.54 and 0.52. On both datasets, open models outperformed GPT-3.5 with regard to F1-score, which generated a huge amount of false positives leading to an F1-score of 0.11 on the more imbalanced and 0.22 on the less imbalanced dataset.

Ethics

False legal statements always have to potential to cause harm. While we worked with experienced experts who carefully decided on each annotation, it is always possible that the dataset contains errors. Claiming falsely that a clause is void could potentially have negative impacts on a business, claiming falsely that a clause is valid could potentially have a negative impact on consumers. One measurement we took to avoid such impacts is anonymising the clauses, in order to make it harder to connect them with a specific business. Many clauses, like severability or liability clauses, are highly standardised and often directly drawn from boilerplate contracts. In such cases removing the explicit identifiers is sufficient to make them completely anonymous. In other cases, particularly for example in clauses about bonus and rewards programs, even after removing the explicit identifiers, clauses can be so specific that they can be traced back to individual businesses, if they still use the same clause. We believe that the practical impact of that is rather limited, because retrieving the information about a specific clause from the dataset is not something that a significant number of potential customers is likely going to do. We added an explanation text to the readme of the published version of the corpus to highlight that the annotations are based on the perspective of individual experts and not based on a concrete court ruling and therefore not legally binding. Overall we believe that the publication of the dataset can help to address an existing imbalance of power between customers and companies and thereby, together with the anonymisation strategy, warrants the small but existing risk.

At the same time, being aware that a company uses potentially void clauses that disadvantage consumers and not doing anything about it could be seen as unethical. Therefore, the NGOs we worked with did take legal steps if they encountered clauses during the annotation that they deemed so disadvantageous for consumers that legal steps were necessary.

In general, the dataset consists of publicly accessible data that is usually carefully drafted by lawyers. We did not encounter any instances within the dataset that we deem problematic from an ethical perspective.

Limitations

Due to practical restrictions, the presented dataset has several limitations:

- The dataset was annotated from a consumer protection perspective and therefore is most likely biased towards interpreting existing regulations in a consumer-friendly way.
- The instances in the dataset were only annotated by one expert. Legal decision-making involves uncertainty and interpretation, therefore it would have been desirable to have each instance annotated by multiple experts.
- The assessments in the corpus are based on the legal regulations at the time of the annotation (2021-2023), models trained on newer data might correctly make different predictions based on legislative changes or new court decisions.
- While we believe the dataset to be a somewhat representative mapping of the real world, that also means that is imbalanced and contains a relatively small amount of void clauses.

Due to practical restrictions, the presented evaluation has several limitations:

- Using cloud-based models like GPT-3.5 always poses a threat to the reproducibility of the results, through using an explicitly versioned instance of the model we try to minimize the risk.
- Arguably comparing models that were finetuned on a specific task with a zero-shot prompt approach is an unequal comparison. Future strategies to improve the GPT-3.5 performance could include using few-shot approaches or also prompt engineering. While, given the error results, the few-shot approach might have limited effect, we believe that prompt engineering might be effective in reducing the large number of false positives.

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A Taxonomy for Clause Topics

See Table 4.

B Hyperparameters for Fine-Tuning

B.1 BERT

learning_rate = 2e-5, per_device_train_batch_size = 2, per_device_eval_batch_size= 2, num_train_epochs = 5, weight_decay= 0.01

Listing 1: BERT parameters agb-de dataset

learning_rate = 2e-5, per_device_train_batch_size = 2, per_device_eval_batch_size= 2, num_train_epochs = 4, weight_decay= 0.01

Listing 2: BERT parameters agb-de-under dataset

B.2 RoBERTa

learning_rate = 2e-5, per_device_train_batch_size = 8, per_device_eval_batch_size= 8, num_train_epochs = 3, weight_decay= 0.01

Listing 3: RoBERTa parameters agb-de dataset

learning_rate = 2e-5, per_device_train_batch_size = 2, per_device_eval_batch_size= 2, num_train_epochs = 4, weight_decay= 0.01

Listing 4: RoBERTa parameters agb-de-under dataset

B.3 GPT2

learning_rate = 2e-5, per_device_train_batch_size = 2, per_device_eval_batch_size= 2, num_train_epochs = 6, weight_decay= 0.01

Listing 5: GPT2 parameters agb-de dataset

```
learning_rate = 2e-5,
per_device_train_batch_size = 4,
per_device_eval_batch_size= 4,
num_train_epochs = 4,
weight_decay= 0.01
```

Listing 6: GPT2 parameters agb-de-under dataset

C GPT-3.5-Turbo Prompt

```
model = "gpt - 3.5 - turbo - 0125"
response_format= { "type": "json_object"
     },
messages=[
       {"role": "system", "content": '
    Stell dir vor, du bist ein Anwalt fü
    r Verbraucherschutz und berätst
    Verbraucher. Ist folgende Klausel in
     den AGB eines Online Shops
    potenziell ungültig wenn es sich
    beim Kunden um einen Verbraucher und
     beim Anbieter um eine Unternehmen
    handelt? Antworte mit true, wenn die
     Klausel potenziell ungültig ist und
    mit false wenn sie wahrscheinlich
nicht ungültig ist. Erkläre deine
    Entscheidung. Antworte in folgendem
    JSON Format {"id": ' + str(id) +
"ungültig": Boolean, "erklärung":
    String }'},
       {"role": "user", "content": text}
]
```

Listing 7: GPT-3.5-Turbo Prompt and API call

D Evaluation of undersampled models

Model	Precision	Recall	F1-score
s∨m	0.20	0.32	0.25
bert	0.36	0.38	0.37
xlm	0.43	0.08	0.14
gerpt2	0.36	0.43	0.40

Table 5: Evaluation results of the models trained on the undersampled training data on the full test data

E GPT-3.5-Turbo Explanation Examples

E.1 Example 1

"Die Klausel ist potenziell ungültig, da sie den Verbraucher unangemessen benachteiligen könnte. Nach dem Gesetz muss der Verbraucher sein Widerrufsrecht klar und deutlich ausüben können, ohne dass zusätzliche Hürden oder Bedingungen auferlegt werden. Indem hier festgelegt wird, dass die Anmeldung einer Retoure unter Mein Konto als Widerruf gilt, könnte dies den Verbraucher in der Ausübung seines Widerrufsrechts einschränken. Es ist wichtig, dass der Verbraucher sein Widerrufsrecht ohne zusätzliche Verpflichtungen ausüben kann."

E.2 Example 2

"Gemäß § 357 BGB darf einem Verbraucher im Falle eines Widerrufs nicht die Kosten der Rücksendung auferlegt werden. Daher ist eine Klausel, die den Verbraucher verpflichtet, die Kosten für die Rücksendung zu tragen, potenziell ungültig."

Subtopic	Subtopic	Description
age	Subtopic	Minimum age to order
applicability		Applicability of the T&C
applicableLaw		Applicable law
arbitration		Participation in arbitration
changes		Changes to the contract
codeOfConduct		Code of conduct
conclusionOfContract		Conclusion of contract
conclusionOfContract	binding	When the contract becomes binding
conclusionOfContract	changeOfOrder	Changes and adujstments of orders
conclusionOfContract	definition	Definition of terms used in the contract
conclusionOfContract	restrictions	Restrictions to orders (e.g. the amount of ordered goods)
conclusionOfContract	steps	Steps towards contract conclusion
conclusionOfContract	withdrawal	Withdrawal of the company from the contract
delivery		Delivery
delivery	brokenPackaging	Handling of broken packaging
delivery	costs	Costs of delivery
delivery	customs	Customs handling
delivery	destination	Destinations to which goods are delivered
delivery	methods	Delivery methods
delivery	partial	Partial delivery
delivery	time	Delivery duration
description		Product descriptions
disposal		Disposal regulations
intellectualProperty		Intellectual property
liability		Liability
party		Contracting party
payment	faa	Payment Payment face
payment	fee	Payment fees
payment	late	Late payment Loyalty schemes and reward programs
payment	loyalty methods	Accepted payment methods
payment	restraint	Restraint of payment
payment payment	vouchers	Vouchers
personalData	vouchers	Personal data
personalData	cookies	Cookie regulations
personalData	duration	Storage duration for personal data
personalData	information	Which information is processed/stored
personalData	reason	Reason for storing / processing personal data
personalData	update	Updates of personal data
personalData	usage	Usage of personal data
placeOfJurisdiction	usuge	Place of jurisdiction
prices		Prices
prices	currency	Currency of prices
prices	vat	VAT
retentionOfTitle		Retention of title
severability		Severability clause
textStorage		Storage of contract text
warranty		Warranty
warranty	options	Options in case of warranty
warranty	period	Warranty period
withdrawal		Withdrawal
withdrawal	compensation	Compensation for product usage
withdrawal	effects	Effects of withdrawal
withdrawal	exclusion	Cases excluded from the right to withdraw
withdrawal	form	Allowed / disallowed to submit a withdrawal
withdrawal	model	Withdrawal model form
withdrawal	period	Time period for withdrawal
withdrawal	shippingCosts	Shipping costs for withdrawal
withdrawal	shippingMethod	Shipping method for withdrawal

Table 4: Taxonomy for Clause Topics (based on Braun and Matthes (2022))

F Datasheet

F.1 Motivation for Dataset Creation

Why was the dataset created? (e.g., were there specific tasks in mind, or a specific gap that needed to be filled?)

The dataset was created to enable the training and evaluation of machine learning models that can detect potentially void clauses in consumer standard form contracts.

What (other) tasks could the dataset be used for? Are there obvious tasks for which it should not be used?

The dataset can also be used for clause topic classification.

Has the dataset been used for any tasks already? If so, where are the results so others can compare (e.g., links to published papers)?

This paper is the first to use the dataset.

Who funded the creation of the dataset? If there is an associated grant, provide the grant number.

The data collection and annotation was supported by funds of the Federal Ministry of Justice and Consumer Protection (BMJV) based on a decision of the Parliament of the Federal Republic of Germany via the Federal Office for Agriculture and Food (BLE) under the innovation support programme.

F.2 Dataset Composition

What are the instances? (that is, examples; e.g., documents, images, people, countries) Are there multiple types of instances? (e.g., movies, users, ratings; people, interactions between them; nodes, edges)

Each instance consists of a clause from a consumer standard form contract and includes the text of the clause, the title (if any), the language of the clause, a unique ID, a unique ID identifying the contract the clause is from and three annotations: whether the clause was considered as potentially void by the annotators and a list of topics and subtopics.

Are relationships between instances made explicit in the data (e.g., social network links, user/movie ratings, etc.)?

Clause from the same contract are linked through the contract ID.

How many instances of each type are there?

The dataset consists of 3764 clauses in total, 179 have been annotated as potentially void and and

3585 as likely valid.

What data does each instance consist of? "Raw" data (e.g., unprocessed text or images)? Features/attributes? Is there a label/target associated with instances? If the instances are related to people, are subpopulations identified (e.g., by age, gender, etc.) and what is their distribution?

Each instance consists of the clause text, the title of the clause (if any), the language of the clause, a unique ID, a unique ID identifying the contract the clause is from and three annotations: whether the clause was considered as potentially void by the annotators, a list of topics, and a list of subtopics.

Is everything included or does the data rely on external resources? (e.g., websites, tweets, datasets) If external resources, a) are there guarantees that they will exist, and remain constant, over time; b) is there an official archival version. Are there licenses, fees or rights associated with any of the data?

Everything is included in the dataset.

Are there recommended data splits or evaluation measures? (e.g., training, development, testing; accuracy/AUC)

Splits for training and test are available together with the corpus. We suggest using metrics that work well on unbalanced data and highly discourage the use of accuracy as metric on this dataset.

What experiments were initially run on this dataset? Have a summary of those results and, if available, provide the link to a paper with more information here.

The dataset was initially used to train classifiers that are able to detect potentially void clauses in consumer contracts.

F.3 Data Collection Process

How was the data collected? (e.g., hardware apparatus/sensor, manual human curation, software program, software interface/API; how were these constructs/measures/methods validated?)

The data was manually collected by human annotators and copied into a structured Excel format.

Who was involved in the data collection process? (e.g., students, crowdworkers) How were they compensated? (e.g., how much were crowdworkers paid?)

The data was collected by fully-qualified lawyers during their usual work-time. All participants worked for organizations that pay according to the collective labor agreement for public service workers in German states. **Over what time-frame was the data collected?** Does the collection time-frame match the creation time-frame?

The data was collected between 2021 and 2022 and annotated between 2021 and 2023. The creation date of most of the items is unknown.

How was the data associated with each instance acquired? Was the data directly observable (e.g., raw text, movie ratings), reported by subjects (e.g., survey responses), or indirectly inferred/derived from other data (e.g., part of speech tags; model-based guesses for age or language)? If the latter two, were they validated/verified and if so how?

The data was directly observable or was manually annotated by the annotators who are experts in the subject of the annotation.

Does the dataset contain all possible instances? Or is it, for instance, a sample (not necessarily random) from a larger set of instances?

No, the dataset does not claim completeness in any sense.

If the dataset is a sample, then what is the **population?** What was the sampling strategy (e.g., deterministic, probabilistic with specific sampling probabilities)? Is the sample representative of the larger set (e.g., geographic coverage)? If not, why not (e.g., to cover a more diverse range of instances)? How does this affect possible uses?

We believe that the dataset is somewhat representative for standard form consumer contracts in Germany. It is sampled from different industry (e.g. e-commerce and fitness).

Is there information missing from the dataset and why? (this does not include intentionally dropped instances; it might include, e.g., redacted text, withheld documents) Is this data missing because it was unavailable?

The data has been anonymised, i.e. company names, phone numbers, addresses, tax ids, and similar information has been removed.

F.4 Dataset Distribution

How is the dataset distributed? (e.g., website, API, etc.; does the data have a DOI; is it archived redundantly?)

It is archived on GitHub (https://github. com/DaBr01/AGB-DE) and for easier access also available in the Hugging Face Hub (https:// huggingface.co/datasets/d4br4/agb-de).

When will the dataset be released/first distributed? (Is there a canonical paper/reference for this dataset?)

June 2024.

What license (if any) is it distributed under? Are there any copyrights on the data?

The annotations are licensed under CC-BY-SA 4.0.

Are there any fees or access/export restrictions?

No.

F.5 Dataset Maintenance

Who is supporting/hosting/maintaining the dataset? How does one contact the owner/curator/manager of the dataset (e.g. email address, or other contact info)?

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Will the dataset be updated? How often and by whom? How will updates/revisions be documented and communicated (e.g., mailing list, GitHub)? Is there an erratum?

There are no plans to update the dataset unless important mistakes become clear.

If the dataset becomes obsolete how will this be communicated?

On the GitHub page.

Is there a repository to link to any/all papers/systems that use this dataset?

Yes.

If others want to extend/augment/build on this dataset, is there a mechanism for them to do so? If so, is there a process for tracking/assessing the quality of those contributions. What is the process for communicating/distributing these contributions to users?

We would suggest to create a fork on GitHub.

F.6 Legal & Ethical Considerations

If the dataset relates to people (e.g., their attributes) or was generated by people, were they informed about the data collection? (e.g., datasets that collect writing, photos, interactions, transactions, etc.)

There is no information about individuals in the data or was recorded during the annotation of the data.

If it relates to other ethically protected subjects, have appropriate obligations been met? (e.g., medical data might include information collected from animals) If it relates to people, were there any ethical review applications/reviews/approvals? (e.g. Institutional Review Board applications)

N.a.

If it relates to people, were they told what the dataset would be used for and did they consent? What community norms exist for data collected from human communications? If consent was obtained, how? Were the people provided with any mechanism to revoke their consent in the future or for certain uses?

N.a.

If it relates to people, could this dataset expose people to harm or legal action? (e.g., financial social or otherwise) What was done to mitigate or reduce the potential for harm?

N.a.

If it relates to people, does it unfairly advantage or disadvantage a particular social group? In what ways? How was this mitigated?

N.a.

If it relates to people, were they provided with privacy guarantees? If so, what guarantees and how are these ensured?

N.a.

Does the dataset comply with the EU General Data Protection Regulation (GDPR)? Does it comply with any other standards, such as the US Equal Employment Opportunity Act?

Yes, since only publicly available information was collected, the dataset complies with the GDPR and similar regulations.

Does the dataset contain information that might be considered sensitive or confidential? (e.g., personally identifying information)

No.

Does the dataset contain information that might be considered inappropriate or offensive? No.