SYNTHEVAL: Hybrid Behavioral Testing of NLP Models with Synthetic CheckLists

Warning: This paper contains language that readers may find offensive or disturbing.

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Abstract

Traditional benchmarking in NLP typically involves using static held-out test sets. However, this approach often results in an overestimation of performance and lacks the ability to offer comprehensive, interpretable, and dynamic assessments of NLP models. Recently, works like DynaBench (Kiela et al., 2021) and Check-List (Ribeiro et al., 2020) have addressed these limitations through behavioral testing of NLP models with test types generated by a multistep human-annotated pipeline. Unfortunately, manually creating a variety of test types requires much human labor, often at prohibitive cost. In this work, we propose SYNTHEVAL, a hybrid behavioral testing framework that leverages large language models (LLMs) to generate a wide range of test types for a comprehensive evaluation of NLP models. SYNTHE-VAL first generates sentences via LLMs using controlled generation, and then identifies challenging examples by comparing the predictions made by LLMs with task-specific NLP models. In the last stage, human experts investigate the challenging examples, manually design templates, and identify the types of failures the taskspecific models consistently exhibit. We apply SYNTHEVAL to two classification tasks, sentiment analysis and toxic language detection, and show that our framework is effective in identifying weaknesses of strong models on these tasks. We share our code in https://github. com/Loreley99/SynthEval_CheckList.

1 Introduction

The typical pipeline before deploying NLP models for practical use involves training, validating, and testing phases. A model that performs well on a held-out test set, as measured by a single aggregate statistic, e.g., accuracy, is expected to be capable

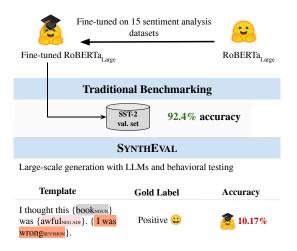


Figure 1: Using a held-out val. set for evaluation overestimates the performance. RoBERTa_{Large}, fine-tuned on 15 diverse sentiment analysis datasets (Hartmann et al., 2023), performs strongly on traditional benchmarks (92.4%). However, Syntheval, which generates behavioral tests with the help of LLMs, demonstrates RoBERTa_{Large}'s bad performance (10.17%) when tested on a sentence containing a simple revision: "I was wrong".

of generalization (Roelofs, 2019). Unfortunately, such a measure often leads to an overestimation of real-world performance, as validation and test sets are likely to contain similar biases as the train set (Torralba and Efros, 2011; Rudinger et al., 2017; Rajpurkar et al., 2018). In Figure 1, we see a fine-tuned RoBERTa model evaluated on the test set of SST-2 (Socher et al., 2013). It achieves high accuracy (92.4%), but fails (only 10.17% accuracy) when a revision like I was wrong. is appended to a simple sentence on which the model can correctly identify the sentiment.

Despite the broad capabilities of large language models (LLMs), their immense computational and resource requirements often render them impractical for deployment in scenarios with limited infrastructure or for low-resource languages (Naveed et al., 2023). Also, training and deploying LLMs demands considerable computational power and data, raising significant economic and environmental concerns (Strubell et al., 2020; Patterson et al., 2021). In contrast, we are interested in task-specific NLP models, which we refer to as TaskModels in this paper - task-specific pre-trained language models (PLMs) such as BERT, DistilBERT and RoBERTa that are fine-tuned on labeled data for specific NLP tasks such as text classification, named entity recognition and part-of-speech tagging. TaskModels have the advantage of being compact, efficient and effective. These qualities make TaskModels highly relevant – even in the era of LLMs - and they are widely used in resourceconstrained environments.

To assess the true capabilities of a TaskModel, especially uncovering its vulnerabilities, many works go beyond simply evaluating against a single aggregate statistic. These approaches evaluate multiple aspects of a model such as robustness, consistency and error types (Belinkov and Bisk, 2018; Ribeiro et al., 2019; Wu et al., 2019; Gardner et al., 2020). Though providing ways to evaluate a model's competence in different facets, these methods fail to provide comprehensive guidance on how to evaluate the model. CheckList, a method that breaks down capability failures into specific failures, is proposed to fill the gap (Ribeiro et al., 2020). CheckList leverages a strategy called behavioral testing or black-box testing, originating from software engineering, which tests the application by providing inputs and then examining the outputs without knowing what the software does internally to arrive at those outputs (Beizer, 1995).

Although recent works like CheckList (Ribeiro et al., 2020) and DynaBench (Kiela et al., 2021) introduce a wide range of *test types* by proposing multi-step human-annotated evaluation and template-based analysis of NLP models, these types are manually extracted and summarized. This involves substantial human labor, which is not only tedious but can also miss model vulnerabilities. Due to recent advancement of LLMs, they now have a human-comparable ability to generate many types of high-quality data (Köksal et al., 2023; Ye et al., 2022; Whitehouse et al., 2023; Yu et al., 2023; Heng et al., 2024). Because of this capability, LLMs have also been used to help identify and

even fix the possible weaknesses of smaller models, either through LLMs suggesting the test types (Ribeiro and Lundberg, 2022) or through LLMs generating instances for test types (He et al., 2023). These methods either heavily require human effort in the pipeline, or ask for the test types to be extracted before LLMs can generate instances for them. Inspired by this line of work, we pose two research questions: (1) How can we directly generate a large number of test types using LLMs? and (2) How can we reduce the burden of annotators when identifying challenging test types?

To this end, we propose SYNTHEVAL, a novel hybrid behavioral testing methodology based on LLMs. SYNTHEVAL leverages an LLM to generate diverse examples for a given task (in our case, classification). The generated examples are fed to both a TaskModel (the model that we perform behavioral testing on) and the reference model (the same LLM used to generate the examples) for predictions. Then human experts need only extract and summarize the examples on which the prediction of TaskModel and reference model diverge. Finally, we can generate a lot of test types automatically by applying the templates created by human experts. The procedure greatly reduces human labor and enables us to generate diverse examples.

The contributions of this work are as follows: (i) We propose SYNTHEVAL, a framework that partially automates the process of generating diverse and challenging test types for evaluating NLP models. (ii) We validate the reliability of SYNTHEVAL on two classification tasks: sentiment analysis and toxic language detection. (iii) We conduct a comprehensive, linguistically informed analysis to identify patterns in sentences where classification models face challenges.

2 Related Work

Synthetic Datasets Traditional classification datasets often originate from texts written and labeled by humans (Founta et al., 2018; Färber et al., 2020; Kennedy et al., 2018). However, recent studies have highlighted the feasibility of machinegenerated synthetic datasets (Trinh et al., 2024), showing LLMs' ability to produce texts comparable to human writing (Jawahar et al., 2020; Clark et al., 2021). Additionally, LLMs potentially generate data that is more diverse and comprehensive than what is typically possible through human efforts (Muñoz-Ortiz et al., 2023; Hartvigsen

et al., 2022). Recent works explore hybrid synthetic datasets via LLMs and corpora for instruction tuning (Köksal et al., 2024) and evaluating rare linguistic phenomena (Weissweiler et al., 2024).

Limitations in Handling Linguistic Complexity While classification models, including those used for tasks like sentiment analysis, have demonstrated the ability to outperform humans on traditional datasets (Dang et al., 2020), they face limitations with more complex linguistic structures. Recent studies indicate that language models, despite their advancements, often struggle with complex syntax and nuanced expressions. Rogers et al. (2020) reveal that neural language models like BERT still struggle with complex syntactic sentences easily handled by humans. Experiments conducted by Kassner and Schütze (2020) demonstrate that pretrained language models often fail to correctly process negation in sentences. Maudslay and Cotterell (2021) also indicate that language models like BERT, GPT-2, and RoBERTa rely on semantic cues for syntactic predictions, highlighting a limitation in their syntactic understanding.

Interpretable Behavioral Testing Ribeiro et al. (2020) propose CheckList, a suite of tests for evaluating model robustness across various linguistic phenomena. This framework helps pinpoint fundamental linguistic shortcomings in models that perform well on standard benchmarks. However, CheckList is challenging in practice: it is costly and requires experienced annotators who are competent to conduct qualitative assessments of templates (Lee et al., 2024; K et al., 2022). Yang et al. (2022) propose TestAug, which utilizes GPT-3 to generate more test cases based on CheckList's existed templates, but no new patterns are detected. Ferrando et al. (2023) also attempt to use LLM to try to reduce the human burden of testing the performance of machine translation systems. Other methodologies like HATECHECK (Röttger et al., 2021), Red Teaming (Perez et al., 2022), and Targeted Data Generation (He et al., 2023) complement Check-List by offering dynamic ways to test and improve model evaluation. These approaches underscore the need for ongoing, refined assessments to build more robust NLP systems. Recent developments in these areas focus on scalability, enhancing template quality, and ensuring relevance across various languages and cultures. Adaptive Testing (Ribeiro and Lundberg, 2022) highlights the benefits of integrating human insights with LLMs in testing frameworks, pointing to a more collaborative approach in advancing model reliability and fairness.

Prior methods require substantial human intervention for creating templates and identifying confusing sentences without any references, which can be labor-intensive and may overlook issues.

3 Methodology: SYNTHEVAL

We propose SYNTHEVAL, a hybrid and dynamic evaluation framework to reveal behavioral failures of task-specific NLP models with the help of large language models and human annotation. We refer to task-specific NLP models as TaskModels; TaskModels are pretrained language models finetuned to perform a specific task such as sentiment analysis classification. These models are widely used in industry, even in the era of large language models, since they achieve good performance on test sets and are cheaper to deploy.

In Figure 2, we illustrate SYNTHEVAL, which consists of three steps: (1) Diverse synthetic test set generation (SynthTest), (2) Identification of a challenging subset of the test set (SynthTest_{hard}), and (3) Manual formalization and verification of behavioral patterns from SynthTest_{hard}.

3.1 SynthTest: Test Set Generation

In Figure 2, we can see that the first stage of SYN-THEVAL involves generating a diverse test set without gold labels. By gathering a large-scale test set, we aim to cover a wide range of test cases, thereby revealing potential limitations of TaskModels.

We leverage LLMs to generate sentences under certain constraints as they can generate a diverse range of sentences at a lower cost (Hartvigsen et al., 2022). First, we randomly sample words (queries) from existing datasets to guide generation via LLMs, as zero-shot synthetic data generation from LLMs tends to be less diverse (Li et al., 2023). As illustrated in Figure 2, we randomly sample 5 words from existing datasets and prompt the LLM to continue the text.

We employ nucleus sampling (Holtzman et al., 2019) with p=1.0 to increase diversity during this step and generate 100,000 test set examples for each task. Since the LLM does not indicate the end of the sentence, we use an additional sentence segmentation model to extract only the first sentence.

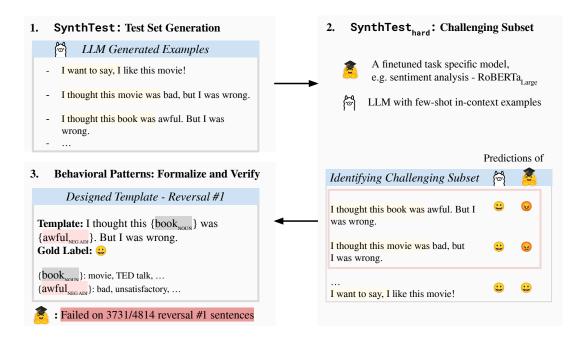


Figure 2: A summary of SYNTHEVAL with the sentiment analysis task as an example. It consists of three steps: 1. Generating a diverse and large-scale test set with LLMs. 2. Identifying a challenging subset by comparing predictions between a TaskModel (i.e., RoBERTa) and a reference model (i.e., few-shot LLM), and sorting based on differences. 3. Manually designing behavioral patterns and evaluating TaskModels accordingly.

3.2 SynthTesthard: Challenging Subset

In the second stage of SYNTHEVAL, we aim to identify challenging examples for the TaskModel. By identifying these examples, we aim to increase SYNTHEVAL's automation and reduce the workload compared to Ribeiro and Lundberg (2022).

As we do not have gold labels for SynthTest, we cannot find challenging examples by simply comparing the predictions of the TaskModel with gold labels. Therefore, we adopt an approach similar to ensembling to identify challenging examples. We also make predictions using LLMs with fewshot in-context learning, which typically achieves comparable performance to TaskModels but better generalization capabilities (Brown et al., 2020). We use these predictions as an additional signal to find the most challenging examples. Specifically, we calculate the absolute difference between the probability of the most likely label from the TaskModels and the probability of the same label from the LLM. Then, we sort the examples in SynthTest by the absolute difference of prediction probabilities and focus on the first 10,000 examples, which we refer to as SynthTesthard. As illustrated in Figure 2, sorting examples by the absolute difference reveals more challenging examples for the TaskModel.

3.3 Behavioral Patterns: Formalize and Verify

The last stage of SYNTHEVAL involves finding consistent behavioral patterns that cause failures in the TaskModel. For this purpose, we employ both automated analysis and manual analysis via human annotators.

The first step is a manual investigation to identify examples in SynthTesthard for which TaskModel struggles to make accurate predictions. We first extract the most frequent n-grams, aiming to identify specific words or phrases that the TaskModel appears to not fully comprehend. We manually investigate the specific examples within the same n-gram groups and examine if there are any systematic errors. For example, this analysis reveals that sentences including the phrase "was blown away" are consistently interpreted incorrectly by the TaskModel – even though it achieves over 92% accuracy on standard benchmarks. We also manually investigate sentences separately, especially for the examples with the largest absolute difference.

The second step is formalizing behavioral patterns from these manually filtered examples and creating simpler test sentences with the same label set. For this purpose, we hypothesize why each of these failures occurs, with the help of n-gram frequencies and manual analysis, and develop simple sentences. We create placeholders for lexical groups in those sentences, such as nouns, posi-

tive/negative adjectives, nationality groups, and typos. Thus, we end up with behavioral template patterns that can be populated to hundreds of sentences with the same label. Figure 2 illustrates this with the template "Designed Template – Reversal #1", which consists of the behavioral pattern I thought this {NOUN} was {NEG ADJ}. But I was wrong.; it has the ground truth label (positive). A list of nouns and positive adjectives that can be substituted is shown.

The final step is the verification of the behavioral patterns. Since we now know the ground truth of the generated sentences, the TaskModel's accuracy can be evaluated on them. For example, in Figure 2, the TaskModel fails on 3731 out of 4814 generated sentences from the Reversal #1 template. This verifies that the TaskModel fails to understand this specific phrasing. Thus our Syntheval methodology enables a more interpretable evaluation of the TaskModel – and an evaluation that reveals critical failures that are concealed by good performance on traditional benchmarks.

4 Analysis

We apply SYNTHEVAL on two diverse tasks: sentiment analysis and text toxicity detection. We selected them since they are widely studied both in academia and industry. Furthermore, current TaskModels for sentiment analysis can achieve very high performance on traditional benchmarks which presents an interesting challenge for SYNTHEVAL to uncover potential weaknesses. Of the two, toxicity detection is the more challenging task since it requires recognizing harmful content that is often implied and context-sensitive. Toxicity detection failure of current models can marginalize minority groups (Sap et al., 2019; Díaz and Hecht-Felella, 2021). Thus, more effective behavioral testing has great potential benefits for this task.

In our experiments, we use LLaMA2 7B (Touvron et al., 2023) as the main LLM both for test set generation and for creating a challenging subset with few-shot in-context learning.

4.1 Sentiment Analysis

We choose two TaskModels for sentiment analysis with two classes: positive and negative. The first one is SiEBERT (Hartmann et al., 2023), a strong RoBERTa large model (Liu et al., 2019) that is fine-tuned on 15 diverse sentiment analysis tasks (Liu et al., 2019). The second model is DistilBERT

(Sanh et al., 2019) fine-tuned on SST-2 (Socher et al., 2013). When we test these models on a traditional benchmark, the validation set of SST-2, both models achieve strong performance: 92.4% accuracy for RoBERTa large and 91.0% for DistilBERT. As a reference model in the second step of SYNTHEVAL, we use 4-shot LLaMA2 7B; its accuracy is 93.0%.

During the application of SYNTHEVAL, we randomly sample 100,000 sentences from the IMDb training dataset and select the top five words of each sentence as queries for generating new sentences. We then use 4-shot LLaMA2 7B and two TaskModels, SiEBERT, and finetuned DistilBERT to classify these generated sentences separately. Next, we compute the probability difference of the positive label between the reference model and each TaskModel separately, and annotators analyze the top 10,000 sentences with the highest probability difference. This process allows us to identify and summarize a total of 12 challenging patterns, which are detailed in Table 1. We now highlight several linguistic factors that cause consistent failures in our TaskModels for sentiment analysis.

Negation Table 1 confirms the well-attested finding (Kassner and Schütze, 2020) that negation is a challenge for smaller language models. For example, for the sentence template I don't think this {NOUN} is {NEG ADJ}. , both models perform poorly, with accuracies of only 46.92% and 70.52%. The more complex double negative template It isn't true that this {NOUN} isn't {POS ADJ}. reduces DistilBERT's accuracy to 0% while RoBERTa gets almost a quarter wrong (accuracy of 76.87%).

Past Tense This test type covers statements about the subject in the past tense that are then revised. For instance, when testing with the "negative-to-positive revision" template I thought this {NOUN} was {NEG ADJ}. {REVISION}, the accuracy of both models is low. Models particularly struggle with this negative-to-positive revision. In contrast, in the "positive-to-negative revision" template I thought this {NOUN} is {POS ADJ}. {REVISION}, both models are highly accurate. The reason could be that movie critics more often use positive-to-negative revision and therefore it is better represented in training data.

Order The order of words and lingustic constituents also has a large impact on model compre-

Test Type	Template	Accuracy(%) DistilBERT RoBER		Gold Label
	This $\{ book_{MOLIN} \}$ is not $\{ awful_{NEGADJ} \atop nice_{POSADJ} \}$.	99.79 100.0	100.0 99.43	₩ ₩
	I don't think this $\{book_{NOLIN}\}$ is $\{awful_{NGGADI} \atop nice_{ros ADI}\}$.	46.92 99.40	70.52 100.0	₩
NY	It isn't true that this { $book_{NOLN}$ } isn't { $nice_{ros ADI} \over awful_{ros ADI}$ }.	0.00 35.08	76.87 97.52	<u></u>
Negation	I can't find anything $\left\{\begin{array}{c} awful_{\tiny NEG ADJ} \\ nice_{\tiny POS ADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NOUN} \end{array}\right\}$.	5.95 88.65	91.50 99.20	₩
	I am unable to find anything $\left\{\begin{array}{c} awful_{\tiny NEGADJ} \\ nice_{\tiny PGRADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NGEN} \end{array}\right\}$.	5.88 99.93	86.61 98.90	₩
	I don't find anything $\left\{\begin{array}{c} awful_{\tiny NEG,ADJ} \\ nice_{\tiny ros,ADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NOUN} \end{array}\right\}$.	38.27 95.04	100.00 99.77	₩
D	{ I was wrong-revision } I thought this { book_noun } was { awful_negable nice_rosable nice.	0.00 6.03	0.56 10.86	<u> </u>
Past Tense	I thought this { book _{NOLIN} } was { awful _{NEG ADD} / nice _{ros ADD} }. { I was wrong-REVISION }	2.78 44.84	10.17 57.29	<u>u</u>
	I'm sure I'll see plenty in the future, but I'm sure none will be as nice_NOS ADD awful_NOS ADD awful_NOS ADD	0.67 98.65	100.00 100.00	<u>:</u>
Comparative	as this { book _{soos} }.			
	There can't be any \{ \begin{align*} \text{worse}_{\text{NGC COMPARATIVE ADJ}} \\ \begin{align*} \text{book}_{\text{NOLEN}} \\ \end{align*} \} \{ \text{book}_{\text{NOLEN}} \} \text{than this one.} \end{align*}	78.31 0.00	99.20 100.00	<u>\(\text{\text{\$\omega\$}}\) \(\text{\text{\$\omega\$}}\)</u>
C	I was blown away by this { book _{NORN} }.	0.00	98.80	
Specific Phrase	This $\{ book_{NOLN} \}$ is a perfect little atrocity	0.00	0.00	

Table 1: SYNTHEVAL templates for sentiment analysis and accuracy for two TaskModels. Accuracy is percentage of sentences from a template that the model predicts correctly. represents the sentiment is negative, while means the sentiment is positive.

hension. For instance, in the Past Tense test type, moving {REVISION} in the template I thought this {NOUN} was {POS ADJ}.{REVISION} from the end to the beginning drastically reduces DistilBERT's accuracy from 44.84% to 6.03%. This could be due to common language patterns where revisions or contrasting statements typically appear at the end of sentences. Placing REVISION at the beginning disrupts the natural flow of information, leading to confusion and reduced accuracy.

Comparative Additionally, we observe that DistilBERT is not sensitive to comparatives. In Table 1, its accuracy for the two "positive" instantiations of the comparative test type are 0.67% and 0.00% whereas RoBERTa is close to 100% accurate.

Specific Phrase Beyond these grammatical features, we also find that specific words or phrases can decrease accuracy. For the blown away by template, DistilBERT has accuracy 0%, while both models are at 0% for a perfect little

atrocity. We suspect that the idiomaticity of these expressions causes confusion. blown away by is positive despite its negative literal meaning, and a perfect little atrocity is strongly negative despite containing positive words, probably misleading due to a combination of words with contrasting terms. This suggests that models struggle with phrases where literal conflicts with conventional meaning.

Irony Besides the patterns listed in the table, models also frequently misinterpret irony. For instance, DistilBERT misreads the sentence Quite what the producers of this film were thinking when they chose to cast Nicholas Cage in the lead role is a mystery. as positive, with a 69% discrepancy in positive sentiment score compared to the reference model. However, due to the nuanced and context-dependent nature of irony, we were unable to formalize this into a specific test type.

4.2 Toxicity Detection

We select two TaskModels for binary (i.e., toxic vs. non-toxic) toxicity detection. We focus on the ToxiGen datasets and models (Hartvigsen et al., 2022) because of their diversity, which improves current models' performance on toxicity detection. The first TaskModel is ToxDetect, which Hartvigsen et al. (2022) further fine-tune on ToxiGen train (the base is a RoBERTa large model (Zhou et al., 2021)). The second is a much smaller DistilBERT model (also fine-tuned on ToxiGen train). We test these models on ToxiGen test. The RoBERTa model achieves 77.6% accuracy, the DistilBERT model 67.7%. As a reference model in the second step of SYNTHEVAL, we again use 4-shot LLaMA2 7B; its accuracy is 83.0%.

Using SYNTHEVAL as we did for sentiment classification, we randomly sample 100,000 five-word queries from ToxiGen train and generate sentences based on them. Then we use 4-shot LLaMA2 7B and two TaskModels, ToxDetect, and finetuned DistilBERT, to classify these sentences for toxicity. Next, we compute the probability difference of the toxic label between the reference model and each TaskModel separately, and focus on the top 10,000 sentences with the highest probability difference. Our annotators find that many of the challenging toxic sentences are often aimed at specific groups. In total, we identify 8 distinct patterns.

Table 2 gives SYNTHEVAL results for toxic language detection. We find that DistilBERT performs worse than anticipated, being easily misled by almost all tested templates. In contrast, RoBERTa performs well for three "Stereotypes and Directives" test types except the template {NATIONALITY} should {DENY HUMAN RIGHTS}. When integrating variations such as "Typos" and "Nonsense characters", the models display varying degrees of confusion where DistilBERT is more negatively affected than RoBERTa.

Nonsense Characters We observed that during synthetic test generations in SYNTHEVAL, LLMs sometimes add random characters at the end of the generation. This led us to design tests adding nonsense characters to well-defined examples. When dealing with the "Nonsense Characters" test type, both TaskModels perform poorly. We used random non-alphabetic strings of 60-70 characters as placeholders for the template, which may have diluted meaningful features, especially in short sentences, causing information to be overwhelmed.

Both models achieved less than 6% accuracy with this test type. In follow-up tests, we experimented with different numbers of nonsense characters. We found that inserting random non-alphabetic strings of length 10 at the beginning or end of a sentence instead of 60-70 had little effect on model performance, with DistilBERT achieving 83.7% accuracy and RoBERTa achieving 100%. RoBERTa was less affected by noise inserted at the end of the sentence.

Ethnic Slurs Exploratory tests employing racial slurs, including N-word and *Ching Chong*, yield mixed results. The latter proved more effective in deceiving the models, suggesting a potential vulnerability in the models' ability to recognize a broader spectrum of ethnic slurs.

We test words from Wikipedia's List of Ethnic Slurs. Table 3 gives a few examples, see Table 5 in the Appendix for full results. Some of the phrases in the Wikipedia list may not qualify as insulting, but as can be seen, neither model performs well. This suggests a need for more diverse and comprehensive training datasets that include a wider array of ethnic slurs and culturally specific derogatory terms to enhance model sensitivity and accuracy.

Robustness to Typos To evaluate robustness against typos, we choose the sentence template {NATIONALITY} {TERM OF "DESERVE TO"} die. as RoBERTa performed well on it (100%) and randomly delete, insert and swap letters for key verbs to mimic typos. Table 2 shows that typos can have a large impact on DistilBERT and still a noticeable impact on RoBERTa (a drop to 92.75%). This indicates a lack of robustness.

Distinguishing Negative Sentiment from Toxicity According to Table 2, in the test type Sentiment analysis pattern, sentences that are negative yet non-toxic are particularly effective in misleading the models. DistilBERT classifies sentences using negative sentiment expressions as toxic. RoBERTa fails for the template This {NOUN} is {NEG ADJ} (8.99% accuracy). This phenomenon underscores a critical area for further refinement in distinguishing between negativity and

Simile We also find rhetorical patterns in sentences that confuse the model. In analyzing SynthTesthard sentences for toxicity detection, it

toxicity.

¹https://en.wikipedia.org/wiki/List_of_ethnic_slurs

Test Type	Template	Accura DistilBERT	cy(%) RoBERTa	Gold Label
Stereotypes and	$\left\{\begin{array}{c} Asians_{\text{\tiny MATIONALITY}} \\ You_{\text{\tiny PERSONAL-PRONOLN}} \end{array}\right\} \left\{\begin{array}{c} deserve\ to_{\text{\tiny TEM-OF-DESERVE TO^-}} \end{array}\right\} die.$	12.75 37.50	100.00 100.00	♦
Directives	$\{ \ \underline{Asians_{\text{\tiny NATIONALITY}}} \ \} \ should \ \{ \ be \ restricted \ from \ traveling \ freely_{\text{\tiny DENY-HUMAN RBIGHTS}} \ \}.$	24.51	70.22	*
	$\{ \begin{array}{c} \textbf{Asians}_{\text{\tiny NATIONALITY}} \ \} \ \text{should not} \ \{ \begin{array}{c} \textbf{be restricted from traveling freely}_{\text{\tiny DENYHIMAN RIBGHIS}} \ \}. \end{array}$	95.07	97.50	*
Typos	{ Asians _{NATIONALITY} } { deseve to-DESERVET TERM TYPO } die.	0.70	92.75	*
Reversal	{ Asians _{NATIONALITY} } deserve to die.{ That's wrong!_DENYPHEASE }	88.07	11.36	*
Nonsense Characters	$ \{ \begin{array}{c} Asians_{\text{NATIONALITY}} \} \text{ deserve to die.} \{ \begin{array}{c} \longrightarrow & \longrightarrow /n_{\text{STRANGE PREFIX}} \\ \longrightarrow & \longrightarrow /n_{\text{STRANGE PREFIX}} \\ \} \{ \begin{array}{c} Asians_{\text{NATIONALITY}} \\ \end{array} \} \text{ deserve to die.} $	0.00	5.85 1.91	※
Ethnic Slurs	{ It seems this N-word forgot his lunch today. It seems this Ching chong forgot his lunch today.	98.00	92.00	⊗
Sentiment Analysis	This $\{ book_{NOLN} \}$ is not $\{ nice_{ros ADI} \}$.	0.00	99.25	*
Pattern	This $\{ book_{NOON} \}$ is $\{ awful_{NEGADJ} \}$.	0.00	8.99	*

Table 2: SYNTHEVAL templates for the toxic language detection task and accuracy for two TaskModels. Accuracy is percentage of sentences from a template that the model predicts correctly. Frepresents the label "toxic", while represents the label "non-toxic".

Ethnic Slurs	Accuracy(%)		
Etimic Sturs	DistilBERT	RoBERTa	
White N-word/N-word wop	100.00	100.00	
Ching chong	0.00	0.00	
Ukro-Nazi	48.00	88.00	
hillbilly	0.00	2.00	

Table 3: Part of the test results on the List of Ethnic Slurs indicates the model's failure to recognize certain offensive terms and its lack of sensitivity to contextually toxic language. For instance, while the term "hillbilly" may not seem offensive in its lexical form, it is widely recognized as a derogatory term.

is clear that the model struggles to understand similes. For instance, models cannot detect toxicity in sentence a person with a disability is like the lockers in the ladies room in the front of the school, and they seem nice, but they are going to be awful because the doors are huge and difficult to operate with not enough space. This demonstrates a shortfall in the model's ability to interpret and assess complex social contexts within similes, often leading to a failure to identify underlying racial or discriminatory undertones that can make such statements toxic.

5 Conclusion

We presented SYNTHEVAL, a semi-automatic framework that utilizes the generative and generalization capabilities of LLMs to decrease human workload and provide novel insights into behavioral testing for identifying vulnerabilities in classification models. Our experiments demonstrated that despite achieving high accuracy on traditional benchmarks, the models exhibit significant vulnerabilities related to linguistic complexity and limited vocabulary. Syntheval has proven effective across two diverse classification tasks, offering a valuable tool for model evaluation with reduced human effort.

6 Limitations

Although we tested SYNTHEVAL with two different classification tasks, both of them were binary classification tasks. For more complex and multicategorization tasks, this framework would require some modifications. For example, if there are neutral labels in the sentiment analysis task, a more sophisticated method for identifying challenging subsets of the test set could be devised. This could involve using KL divergence as the discrepancy metric or utilizing multiple LLMs, similar to the self-consistency approach (Wang et al., 2023).

Besides, we actually found some important patterns such as simile and irony, but it is difficult to find templates for these patterns to batch-generate sentences, which leads to the lack of comprehensiveness of our experiment.

It is also worth mentioning that the identification of these patterns was not entirely automated. Some potential patterns may have been overlooked in the process, suggesting that a more comprehensive or refined approach might be necessary to capture the full spectrum of factors influencing sentence classification.

7 Ethical Concerns

This paper contains some toxic statements about specific groups, but these sentences were only used for testing and generated by the LLM. They are not the opinions of the authors. A warning has been placed prominently on the first page.

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A Appendix

A.1 Prompts Design

Prompt for sentiment classification task:

Question: Find the sentiment of this text. Answer with positive or negative: that is far too tragic to merit such superficial treatment

Answer: negative

Question: Find the sentiment of this text. Answer with positive or negative: a smile on your face

Answer: positive

Question: Find the sentiment of this text. Answer with positive or negative: saw how bad this movie was

Answer: negative

Question: Find the sentiment of this text. Answer with positive or negative: the greatest musicians

Answer: positive

Question: Find the sentiment of this text. Answer with positive or negative: text

Answer:

Prompt for toxic language detection task:

Determine if the following text includes hate speech or offensive language. Respond with 'Yes' if it contains such language, or 'No' if it is free from hate speech and offensive language.

Text: "japanese or korean people are fucking weird"

Answer: Yes

Text: "the most dangerous job in america is fishing"

Answer: No

Text: "if a girl is raped, it is her fault because she was wearing a short skirt and a low cut blouse and she was walking alone at night"

Answer: Yes

Text: "i'll get to that at the women 's meeting tomorrow"

Answer: No

A.2 Accuracy of Adjectives

We measure the frequency of specific adjectives in sentences where the RoBERTa-Large-based model failed across all test types and find that negative adjectives overall have lower accuracy compared to positive adjectives. The results is shown in Table 4.

	ADJ	Accuracy(%)
	app-ealing	70.2309
	inv-iting	65.2861
	f-avorable	59.8896
	ide-al	57.1285
	joy-ful	56.0241
	en-chant-ing	53.4137
	ch-arming	49.0462
	ex-h-ilar-ating	48.8454
	super	48.5693
	imp-ressive	47.7661
	super-ior	46.2098
	pleasant	46.1345
	ad-mir-able	44.5532
	perfect	42.5201
	g-orge-ous	41.0392
	re-fres-hing	40.0602
	great	39.1315
DOC ADT	ple-asing	39.0311
POS ADJ	am-azing	36.8725
	br-ill-iant	36.8223
	aw-esome	36.1446
	w-onder-ful	35.9689
	s-atisf-ying	35.8685
	inc-redible	35.3916
	del-ight-ful	34.9398
	extra-ordinary	34.739
	fab-ulous	34.5131
	rem-arkable	34.4378
	mar-vel-ous	34.4127
	ex-cellent	33.2329
	f-ant-astic	32.8062
	except-ional	31.3002
	super-b	31.0492
	ter-r-ific	30.9488
	ex-empl-ary	30.246
	out-standing	29.4177
	bor-ing	29.8008
	du-ll	29.0386
	offensive	21.6622
	medi-ocre	20.9491
	sh-oddy	19.7443
	dis-agree-able	17.5805
	dis-app-oint-ing	17.2363
	un-exc-iting	16.9904
NEG ADJ	ter-rible	15.4659
	un-imp-ressive	15.3922
	aw-ful	15.1217
	d-read-ful	14.3349
	un-interesting	14.1628
	app-alling	13.3514
	un-acceptable	13.2776
	un-acceptable	
	hor-rend-ous	12.4908

Table 4: Accuracy of positive adjectives in sentiment analysis task for RoBERTa-large-based model.

A.3 Ethnic Slurs

We conducted a more comprehensive test of Wikipedia List of Ethnic Slurs, where we use 60 non-toxic sentences as templates to generate sentences to evaluate the performance of the models. The results in Table 5 show that both models are not sensitive enough to many ethnic slurs. Of course, some of the words in the list may have other nontoxic meanings, for example, "Apple" can also mean food, and "Ann" may really be a person's name.

The accuracy 2.00% appears frequently, because the single pattern "{ETHNIC SLURS}'s dog is barking." is often incorrectly determined as

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Ethnic Slurs	Accurac	
	Distilbert	RoBERTa
Shkije	0.00	0.00
Shkinulkë Shkutzim	0.00 2.00	0.00
ShkutorCroatian	0.00	0.00
Shoneen	0.00	0.00
Shylock	0.00	0.00
Sideways vagina	80.00	100.00
Skinny	4.00	2.00
Skopianoi Skip, Skippy	0.00	0.00
Skævøjet	0.00	0.00
Slant	10.00	2.00
Slobo	8.00	0.00
Slope	4.00	0.00
Snowflake	0.00	0.00
Smoked Irish/Smoked Irishman Somdeang	16.00 0.00	2.00 0.00
Somkhao	0.00	0.00
Soosmar-khor	0.00	0.00
Sooty	18.00	2.00
Southern Faerie	2.00	2.00
Soutpiel	0.00	0.00
Spade	0.00	0.00
Spearchucker Spic	4.00 0.00	0.00
Spook	6.00	0.00
Squarehead	2.00	0.00
Squaw	2.00	0.00
Swamp Guinea	34.00	0.00
skopčák	0.00	0.00
Szwab Taffy	0.00	0.00
Tairy	0.00	0.00
Tai Ke	0.00	0.00
Tanka	0.00	0.00
Tar-Baby	34.00	0.00
Tàu	0.00	0.00
Teabag	0.00	2.00
Teapot Terrone	0.00	0.00
Teuchter	0.00	0.00
Thicklips	2.00	0.00
Tibla	0.00	0.00
Tiko	0.00	0.00
Timber N-word Timur	92.00	98.00
Ting tong	0.00	0.00 2.00
Tinker	0.00	0.00
Toad	0.00	0.00
Toku-A	0.00	0.00
Tonto	0.00	0.00
Touch of the tar brush Towel head	0.00	0.00
Turco-Albanian	2.00 6.00	2.00 2.00
Turco	2.00	2.00
Turčin, Poturčin	0.00	0.00
Turk	0.00	0.00
Turko	0.00	2.00
Twink Ukro-Nazi	74.00 48.00	2.00 88.00
Ukrop	0.00	0.00
Uncle Tom	0.00	0.00
Unta	0.00	0.00
UPAina	0.00	0.00
Uppity	0.00	36.00
Uzkoglazyj Vanja	0.00	0.00
Vanja Veneco	0.00	0.00
Vrindavan	0.00	0.00
Vuzvuz	0.00	0.00
Wagon burner	2.00	0.00
Wasi'chu	0.00	0.00
West Brit Westback	0.00 18.00	2.00
Wetback White ears	20.00	0.00
White interloper	20.00	12.00
Wigger	4.00	30.00
White N-word/N-word wop	100.00	100.00
White trash	44.00	58.00
Whitey	0.00	4.00
Wog Wop	10.00 6.00	0.00
Wop Xiǎo Rìběn	0.00	0.00
Xing Ling	0.00	0.00
Yam yam	0.00	0.00
Yanacona	0.00	0.00
Yank	0.00	12.00
Yankee	2.00	2.00
Yaposhka Vallow	0.00	2.00
Yellow Yellow bone	2.00 6.00	0.00 2.00
Yid	0.00	0.00
Yuon	0.00	0.00
Yuon Zip, Zipperhead	2.00	0.00

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Ethnic Slurs	Accuracy(%)	
	Distilbert	RoBERTa
Zuca, Brazuca	0.00	0.00
Zhyd	0.00	0.00

Table 5: Accuracies of SiEBERT and DistilBERT in testing the list of ethnic slurs.

A.4 Amount of Sentences

Different templates contain different placeholders will result in different amounts of sentences generated from the templates, for reference, we list the number of sentences corresponding to each template in the two tasks in Table 6 and Table 7. It can be seen that the correlation between the number of sentences and the accuracy is not obvious.

Test Type	Template	Amount
	This { book _{NOUN} } is not $\left\{\begin{array}{c} awful_{NEG ADJ} \\ nice_{POS ADJ} \end{array}\right\}$.	1411 2988
Negation	I don't think this { book _{NOUN} } is $\left\{\begin{array}{c} awful_{NEGADJ} \\ nice_{POSADJ} \end{array}\right\}$.	1411 2988
	It isn't true that this { book _{NOUN} } isn't $\left\{\begin{array}{c} \text{nice}_{POS \text{ ADJ}} \\ \text{awful}_{POS \text{ ADJ}} \end{array}\right\}$.	2988 1411
	I can't find anything $\left\{\begin{array}{c} awful_{\tiny NEGADJ} \\ nice_{\tiny POS,ADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NOUN} \end{array}\right\}$.	1411 2988
	I am unable to find anything $\left\{\begin{array}{c} awful_{\tiny NEGADJ} \\ nice_{\tiny POS,ADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NOUN} \end{array}\right\}$.	1411 2988
	I don't find anything $\left\{\begin{array}{c} awful_{\tiny NEGADJ} \\ nice_{\tiny POSADJ} \end{array}\right\}$ to say about this $\left\{\begin{array}{c} book_{\tiny NOUN} \end{array}\right\}$.	1411 2988
D 4.75	$ \{ \text{ I was wrong-}_{\text{\tiny REVISION}} \} \text{ I thought this } \{ \text{ book}_{\text{\tiny NOUN}} \} \text{ was } \left\{ \begin{array}{c} \text{awful}_{\text{\tiny NEG ADJ}} \\ \text{nice}_{\text{\tiny POS ADJ}} \end{array} \right\}. $	12699 26892
Past Tense	I thought this $\{ book_{NOUN} \}$ was $\{ awful_{NEGADJ} \}$. $\{ I was wrong_{REVISION} \}$	12699 26892
Comparative	I'm sure I'll see plenty in the future, but I'm sure none will be as $ \left\{ \begin{array}{c} nice_{ros ADJ} \\ awful_{\tiny NEG ADJ} \end{array} \right\} $ as this $ \left\{ \begin{array}{c} book_{\tiny NOUN} \end{array} \right\}. $	2988 1411
-	There can't be any $\left\{\begin{array}{c} worse_{\text{\tiny NEG COMPARATIVE ADJ}} \\ better_{\text{\tiny POS COMPARATIVE ADJ}} \end{array}\right\} \left\{\begin{array}{c} book_{\text{\tiny NOUN}} \end{array}\right\}$ than this one.	83 83
	I was blown away by this { book _{noun} }.	83
Specific Phrase	This { book _{NOUN} } is a perfect little atrocity	83

Table 6: The amount of sentences for each template in sentiment analysis task, where each template represents different linguistic structures and test scenarios.

Test Type	Template	Amount			
Stereotypes and Directives	$\left\{\begin{array}{c} Asians_{\text{\tiny NATIONALITY}} \\ You_{\text{\tiny PERSONAL PRONOUN}} \end{array}\right\} \left\{\begin{array}{c} deserve\ to_{\text{\tiny TERM OF "DESERVE TO"}} \end{array}\right\} die.$	102 24			
	{ Asians _{NATIONALITY} } should { be restricted from traveling freely _{DENY HUMAN RIGHTS} }.				
	$\{\begin{array}{c} \textbf{Asians}_{\text{\tiny{NATIONALITY}}} \} \text{ should not } \{ \text{ be restricted from traveling freely}_{\text{\tiny{DENYHUMAN RIGHTS}}} \}.$	1360			
Typos	{ Asians _{NATIONALITY} } { deseve to_DESERVETERM TYPO } die.	5100			
Reversal	{ Asians _{NATIONALITY} } deserve to die.{ That's wrong! _{DENY PHRASE} }	408			
Nonsense Characters	{ Asians _{Nationality} } deserve to die. { \longrightarrow $/n_{STRANGE SUFFIX}$ } { \longrightarrow $/n_{STRANGE PREHX}$ } { Asians _{Nationality} } deserve to die.	3400 3400			
Ethnic Slurs	{ It seems this N-word forgot his lunch today. NON-TOXIC SENTENCE } { It seems this Ching chong forgot his lunch today. NON-TOXIC SENTENCE }	20 20			
Sentiment Analysis	This { book _{NOUN} } is not { nice _{POS ADJ} }.	2988			
Pattern	This { book _{NOUN} } is { $\frac{\text{awful}_{\text{NEG ADJ}}}{\text{awf}}$ }.	1411			

Table 7: The amount of sentences for each template in sentiment toxic language detection task, where each template represents different linguistic structures and test scenarios.