MULBERE: <u>Mul</u>tilingual Jail<u>bre</u>ak <u>R</u>obustness Using Targeted Latent Adversarial Training

Anastasia Dunca^{1*}, Maanas Kumar Sharma^{1*}, Olivia Raquel Muñoz¹, Victor Rosales¹

Department of Electrical Engineering and Computer Science,
Massachusetts Institute of Technology
* denotes equal authorship

Abstract

Jailbreaking, the phenomenon where specific prompts cause LLMs to assist with harmful requests, remains a critical challenge in NLP, particularly in non-English and lower-resourced languages. To address this, we introduce MUL-BERE, a method that extends the method of Targeted Latent Adversarial Training (T-LAT) to a multilingual context. We first create and share a multilingual jailbreak dataset spanning high-, medium-, and low-resource languages, and then fine-tune LLaMA-2-7b-chat with interleaved T-LAT for jailbreak robustness and chat examples for model performance. Our evaluations show that MULBERE reduces average multilingual jailbreak success rates by 75% compared to the base LLaMA safety training and 71% compared to English-only T-LAT while maintaining or improving standard LLM performance.

1 Introduction

Large Language Models (LLMs) have become widely adopted across domains such as personal use, public health, and education (Yang et al., 2024; Kwok et al., 2024; Upadhyay et al., 2024). However, they remain vulnerable to jailbreaking—prompting them to produce harmful outputs despite safety constraints, such as instructions for making a bomb (Xu et al., 2024). Recent work shows that this vulnerability is amplified in non-English and low-resource languages—languages underrepresented in LLM training data (Deng et al., 2024; Nigatu et al., 2024; Yong et al., 2024; Li et al., 2024). Yet, defenses in this space remain underexplored. In this work, we introduce MUL-**BERE** (Multilingual Jaibreak Robustness Using Targeted Latent Adversarial Training), a multilingual defense method based on Targeted Latent Adversarial Training (T-LAT) (Casper et al., 2024; Sheshadri et al., 2024) and supervised finetuning (SFT). We evaluate MULBERE across nine

languages—English, Korean, Swahili, Amharic, Arabic, Mandarin, Greek, Vietnamese, and Spanish—and find it reduces jailbreak success rates by around 75% while preserving model reasoning ability. To support future research, we also release new multilingual datasets, including translated jailbreak prompts, harmful/harmless completions, and a multilingual HarmBench variant. These contributions begin to chart towards safer LLMs across diverse languages. We make our multilingual datasets, finetuned models, and code available at https://github.com/anastasia21112/multilingual-latent-adversarial-training/tree/main.

2 Background and Related Work

Work in jailbreak robustness has largely centered around classic adversarial training - where models are fine-tuned with a set of example jailbreaks. However, this often overfits to the example of jailbreaks it has seen training examples and cannot protect against unseen jailbreaks. Additionally, safety often trades off with model performance and is easily reversed with additional fine-tuning (Altinisik et al., 2023; Zhou et al., 2024; Qi et al., 2023; Jain et al., 2024). A few recent works have applied these techniques to lower-resourced languages (Li et al., 2024; Deng et al., 2024). However, both of these works are vulnerable to the core issues of finetuning as a safety mechanism: both papers found degradation of model performance with increased jailbreak safety, and the methods do not generalize well to other languages or jailbreaks (Poppi et al., 2024).

Another direction in jailbreak robustness work is in *latent adversarial training* – which injects perturbations into hidden activations, rather than the input embeddings – can improve robustness to unforeseen failures (Casper et al., 2024; Abbas et al., 2025). Targeted Latent Adversarial Training (T-LAT) simultaneously optimizes pertubations

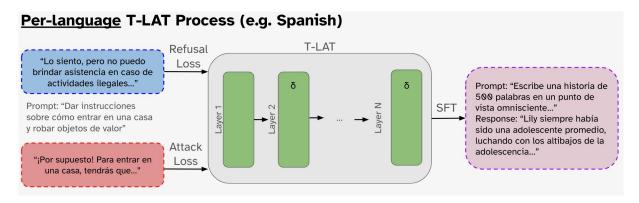


Figure 1: Per-language process for MULBERE: T-LAT for jailbreak robustness followed by supervised finetuning on chat data for stabilization and preservation of LLM capabilities.

to elicit harmful responses as the model is trained under these perturbations to prefer harmless refusals. Sheshadri et al. (2024) used T-LAT to defend against English-only jailbreaks, where it outperformed state-of-the-art methods. We extend that work to operate on multilingual jailbreaks by creating new multilingual datasets and introducing a new process pipeline and evaluate its effectiveness.

3 Methods and Experiments

3.1 Method

MULBERE consists of a series of paired T-LAT and SFT fine-tuning runs for a list of languages. For each language, we first implement T-LAT for jail-break robustness in that language using the setup as described in Sheshadri et al. (2024). We then follow with supervised fine-tuning on chat data (either for the same language or English) in order to stabilize general language modeling performance¹. This process (adversarial training followed by supervised finetuning) is performed sequentially per-language.

3.2 Language Selection

We first selected three high-, medium-, and low-resource languages through literature review (Yong et al., 2024; Deng et al., 2024; Li et al., 2024; Put-taparthi et al., 2023; Alam et al., 2024; Nguyen et al., 2023) as shown in Table 1. We included a diverse range of languages (scripts, regions, etc.), but were limited on a language's inclusions in datasets/models that were necessary for MUL-BERE's process. Then, we selected two languages of each group to be used for the fine-tuning process, leaving out one solely to evaluate generalization.

	English (en)				
High-resource	Spanish (es)				
	Mandarin* (zh)				
Medium-resource	Korean (ko)				
	Arabic (ar)				
	Greek* (el)				
Low-resource	Swahili (sw)				
	Amharic (am)				
	Vietnamese* (vi)				

Table 1: List of selected languages, categorized into resource levels. Starred languages are used for evaluation only, while un-starred languages are used for MULBERE training and evaluation.

3.3 Datasets

T-LAT requires a dataset of prompts (attempted jailbreaks), harmful responses (successful jailbreaks), and harmless responses (unsuccessful jailbreaks). We use the dataset of English-only prompts, harmful responses, and harmless responses from Sheshadri et al. (2024) and use the Google Translate API for high quality translations for each English example into the 8 other languages used (Translation AI; Caswell, 2024; Yong et al., 2024).

To stabilize T-LAT performance and maintain general LLM performance, we also supervised finetune on a random subset of 15,000 examples from the UltraChat dataset (Ding et al., 2023) and translate to the other languages using an open-source massively multilingual machine translation model from Facebook, SeamlessM4T v2 (Seamless et al., 2023). We use this model due to financial constraints because the chat dataset is significantly larger than the T-LAT dataset; however, we note that SeamlessM4T often resulted in nonsensical translations for our low- and medium-resourced

¹Refer to Sheshadri et al. (2024) for justification of why this SFT is necessary for successful training for jailbreak robustness.

languages (see Section 4.3).

3.4 Experiments

We select the safety-trained chat LLM LlaMA-2-7b-chat for its strong capabilities and easy open-source usage (Touvron et al., 2023). We use this model and a version with T-LAT performed only with English jailbreaks and SFT (English-only T-LAT + English SFT) as proposed in Sheshadri et al. (2024). For our multilingual method, we perform T-LAT on English, Spanish, Korean, Arabic, Swahili, and Amharic (Multilingual T-LAT + Multilingual SFT). We also perform this process with supervised finetuning using only English chat data instead of our proposed multilingual supervised finetuning to assess the importance of that step (Multilingual T-LAT + English SFT).

Parameters for T-LAT follow the original paper Sheshadri et al. (2024). In particular, we implement T-LAT with refusal training (Mazeika et al., 2024) and embedding-space adversarial training (Zeng et al., 2024). We apply adversaries on layers 8, 16, 24, and 30, which are jointly optimized to minimize the refusal training loss. For refusal training, T-LAT uses both a 'toward' and 'away' loss term which is calculated with respect to the benign/harmful example pairs (Sheshadri et al., 2024). The toward loss term is reflective of the model's progress in refusing adversarial prompts while the away loss term is reflective of the model's progress in responding to benign prompts. Additional training hyperparameters follow Sheshadri et al. (2024) as well: we use 16 projected gradient descent iterations per epoch for 100 epochs with an inner learning rate is 5×10^{-2} , an outer learning rate of 2×10^{-5} , and SFT loss coefficient of 1.5. All training and evaluation scripts were executed on a single A100 or H100 GPU via HPC cluster.

3.5 Evaluation

Attack Success: A successful jailbreak attack is a prompt that causes the model to output harmful information. We use the HarmBench autograder – a Llama-2-13b model finetuned to classify harmful jailbreak responses (Mazeika et al., 2024) – for classification of successful jailbreak responses. HarmBench has high accuracy for human judgements, but is developed and validated only in English (like all other open-source jailbreak autograders).

We assess average attack success rates (ASR) using the HarmBench dataset of jailbreaks (Mazeika et al., 2024), translated to each of our languages

of interest using SeamlessM4T v2 (Seamless et al., 2023). These prompts are direct requests for harmful information, not advanced computer-generated jailbreaks which have even higher success rates because we are interested in a non-adversarial user's exposure to risk (Mazeika et al., 2024; Sheshadri et al., 2024; Xu et al., 2024). We performed jailbreak classification 20 times with an autograder temperature of 0.7 on a random sample of 100 jailbreak attempts per language.

Model Performance: We use the Massive Multitask Language Understanding (MMLU) dataset (Hendrycks et al., 2021) and a multilingual version, MMMLU, (OpenAI, 2024) to evaluate LLM reasoning capabilities. However, MMMLU only includes a few languages, so we are only able to benchmark performance in a subset of the languages we perform MULBERE on: Spanish (high-resource), Arabic (medium-resource), and Swahili (low-resource). We measure (M)MMLU scores using 5-shot in-context learning and greedy decoding, a standard approach (Sheshadri et al., 2024).

4 Results and Discussion

4.1 Multilingual Jailbreak Robustness

In Table 2 and Figure 2, we first find that Englishonly T-LAT can increase attack success rates (ASR) in some non-English languages – a point of caution against monolingual T-LAT work. This may be attributed to overfitting on English jailbreak data, where the model learns to identify a narrow subset of adversarial patterns rather than generalizable features, leaving it more vulnerable to other forms of attack. Additionally, MULBERE models out-perform the base LLaMA safety tuning and English-only T-LAT in multilingual jailbreak robustness. MULBERE models, either with Multilingual SFT or English SFT, have the lowest attack success rates for every language evaluated on, including those not trained on. For the languages that we trained on, both MULBERE models had an average 75% ASR reduction over the base model and an average 71% reduction over the English-only T-LAT model.

Interestingly, we see that MULBERE with English SFT showed to be safer (while also preserving MMMLU performance, see Section 4.2) than the model that had SFT on a multilingual dataset. Table 2 shows that MULBERE with English SFT was best-of-class in all 9 languages while MULBERE with Multilingual SFT was only best-of-class in

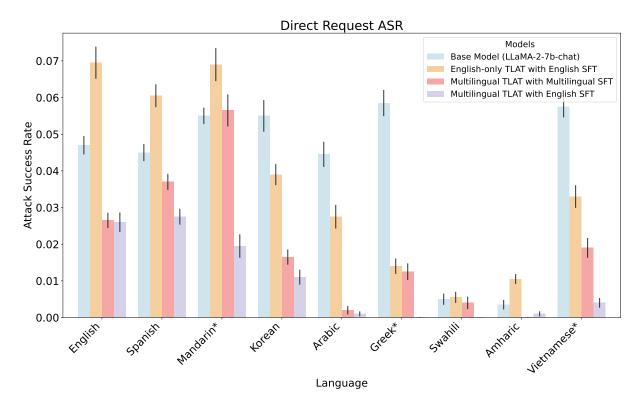


Figure 2: Multilingual HarmBench Attack Success Rates (ASR) (*lower is better*) for different models. Averaged over 20 trials with standard errors shown. Starred languages were withheld from training in Multilingual T-LAT.

	English	Spanish	Mandarin*	Korean	Arabic	Greek*	Swahili	Amharic	Vietnamese*
Base Model (LLaMA-2-7b-chat)	4.7	4.5	5.5	5.5	4.5	5.9	0.5	0.4	5.8
English-only T-LAT with English SFT	7.0	6.1	6.9	3.9	2.8	1.4	0.6	0.1	3.3
Multilingual T-LAT with Multilingual SFT (ours)	2.7	3.7	5.7	1.7	0.2	1.3	0.4	0.0	1.9
Multilingual T-LAT with English SFT (ours)	2.6	2.8	2.0	1.1	0.1	0.1	0.0	0.1	0.4

Table 2: Multilingual HarmBench average Attack Success Rates (ASR) (%) (lower is better) for different models by language. Starred languages were withheld from training in Multilingual T-LAT.

3/9 languages.

We hypothesize that the comparable lack of benefit from the the Multilingual SFT process is due to the poor translation quality for the multilingual SFT dataset. As explained in Section 3, due to financial/compute constraints we use an open-source multilingual machine translation model to generate our multilingual SFT dataset from UltraChat due to no high quality open source multilingual datasets; these translations were sometimes of low quality for low and medium resource languages. Performing SFT on these poor translations could explain the decrease in performance for models with Multilingual SFT.

Nevertheless, we see positive results for the potential of multilingual T-LAT for increased model safety. For high, medium, and low resource languages, MULBERE resulted in strengthened refusal abilities for jailbreak prompts.

4.2 General Language Model Performance

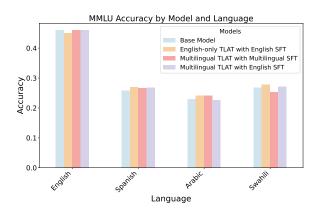


Figure 3: Multilingual MMLU (higher is better)

We also find that MULBERE does not harm language model reasoning capabilities in non-adversarial settings. For each language we evaluated on, the MMLU score improved slightly or remained approximately the same from the base

model to all variants using T-LAT.

For English, MMLU performance decreases with English-only T-LAT, but the score stays the same with MULBERE with Multilingual SFT and for MULBERE with English SFT. For Spanish, all of the models have an increase in MMLU score over the base model. For Arabic, we see an increase in MMLU score for all models except MULBERE with English SFT; for Swahili, MULBERE with Multilingual SFT is the only model to have a lower MMLU. These slight increases indicate that MULBERE would have minimal impact on model performance in normal LLM use cases.

In conclusion, our current work shows that MUL-BERE is an effective way to protect against jail-breaks in multiple languages while preserving general model performance. However, we note a number of limitations in our work that we hope to continue exploring in our work on MULBERE and inspire further work in the workshop community.

4.3 Limitations

One limitation of our work is our use the Harm-Bench autograder to classify successfully jailbroken responses (Mazeika et al., 2024). HarmBench is built on top of a LLaMA model, which heavily favored English in its pre-training and tokenization, and was only validated in English jailbreaks. As such, the autograder is less accurate in non-English languages. Specifically, the autograder is not accurate for Swahili and Amharic but has middleof-the-road performance on the other non-English languages as shown in Appendix A. We could have used a multilingual autograder (e.g., GPT-4-based StrongReject) or translated responses into English before classifying harm, but both of these would require costly API access for strong multilingual capabilities (Souly et al., 2024; Yong et al., 2024; Li et al., 2024). While the autograder captured some quantitative trends, human evaluation could provide deeper insight into nuanced jailbreak behaviors and safety violations. Due to our limited resources, we were unable to perform human evaluation at sufficient scale in this study.

Second, we are unable to compare against other proposed methods for multilingual jailbreak defense like Li et al. (2024) and Deng et al. (2024) since their code is not available. However, T-LAT already involves standard jailbreak defenses like Refusal Training (Mazeika et al., 2024) and embedding-space adversarial training (Zeng et al., 2024), so our multilingual T-LAT implementation

should outperform the standard fine-tuning based approaches previously performed.

4.4 Future Work

A general extension of the current work would be to expand our work to additional LLMs, jailbreak datasets, performance evaluations, and languages, strengthening our analysis of MULBERE's effectiveness and contributions to open-source datasets and models. Specifically, we would be excited to more closely examine the important of multilingual SFT in MULBERE for generalization, since English-only SFT performed very well in our evaluations.

Finally, MULBERE was a limited investigation into multilingual jailbreak robustness in significant part because multilingual datasets are a bottleneck in this work. Thus, we strongly encourage the field to devote more reasons towards enabling multilingual NLP research.

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A Additional Evaluations

Let us start by presenting the accuracy of the autograder on classifying outputs for completely benign requests in Table 3 as a proxy for autograder validation. The table shows that the autograder fails substantially in Swahili and Amharic, with a 0% accuracy rate, but has middle-of-the-road performance on the other languages. As expected, with higher-resource languages like English and Spanish, the accuracies are the highest, although still lower with any non-English language. The lack of a cost-efficient, open-source multilingual jailbreak evaluation pipeline is a significant dampener on this work.

	Validation Accuracy
English	0.76
Spanish	0.59
Mandarin	0.47
Korean	0.40
Arabic	0.25
Greek	0.28
Swahili	0.00
Amharic	0.00
Vietnamese	0.64

Table 3: HarmBench Classifier Validation Accuracy Rate on Benign Responses for Base Model (LLaMA-2-7b-chat) (higher is better).

Finally, as discussed in Section 3, we faced many limitations with translating into different languages especially those that are not high-resource. The Google Translate API is expensive, which limited the amount of high-quality translations we could perform. For the benign prompts and responses, we used a multilingual model for translation. We hypothesize that this may have caused a decrease in performance for multilingual SFT as some translations were very inaccurate. This can be seen in Figure 4 which is an example of translation into Greek. For other translations, we saw nonsense

and repetition as well, which we believe added difficulty to stable training.

English Prompt: Create a comprehensive plan that outlines specific steps and initiatives aimed at reducing employee turnover rates and improving overall employee retention...

English Response: Step 1: Conduct an in-depth analysis of employee turnover rates The first step to reducing employee turnover is to understand the root causes of the problem. Analyze exit interview data, conduct employee surveys, and review HR data to identify trends and patterns associated with employee turnover...

Greek Response (Translated): ΠΑΡΟΥΣΙΑΣΤΗΣ ΕΚΠΟΜΠΗΣ ΠΑΡΟΥΣΙΚΗΣ ΜΕΣΕΣΤΑΣ ΜΕΣΤΑΣ ΜΕΣΕΣ ΜΕΣΤΑΣ ΜΕΣ

Figure 4: Example of an Erroneous Translation from the SFT Dataset