

TADA



Task Agnostic Dialect Adapters for English





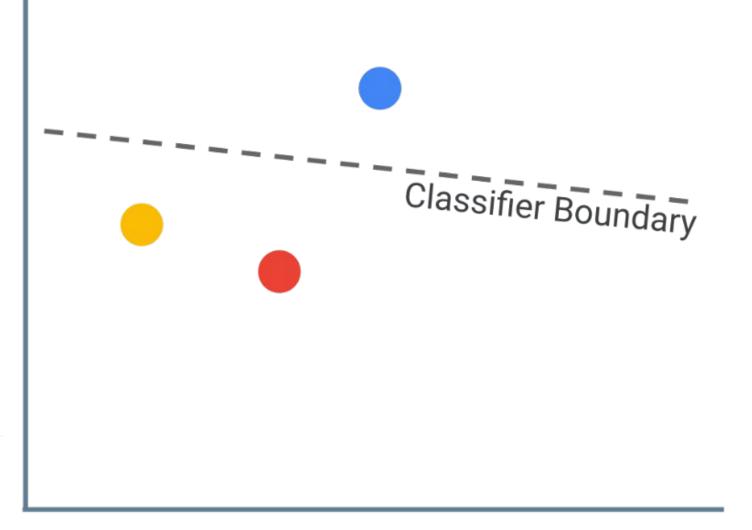
William Held, Caleb Ziems, Diyi Yang wheld3@gatech.edu

Abstract

- LLMs are a foundation for many NLP tasks but do not perform equally across dialects
- Dialect robustness across all tasks is key for inclusion of English speakers globally
- We release task agnostic dialect adapters which offer plug-and-play dialect

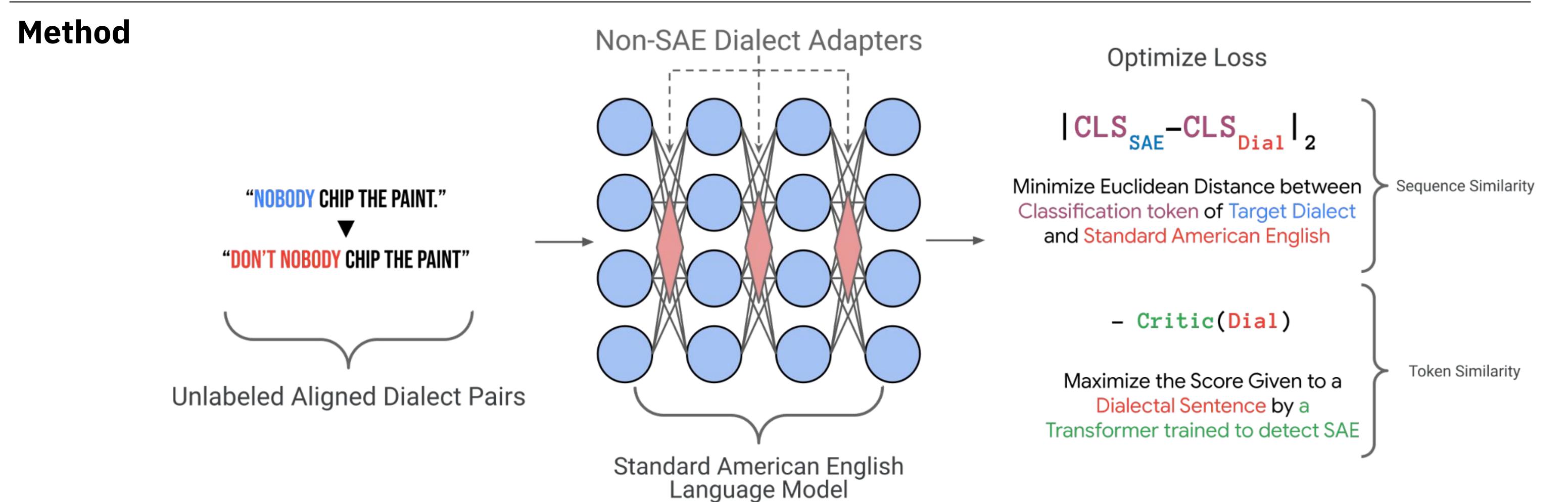
Hypothesis: JANE WISHED EVERYONE LOVED HER!

Premises: "SHE LOVES THAT NOBODY LIKES HER." The loves that don't nobody like her." "She doesn't love that nobody likes her." Sequence Embeddings



robustness for anyone to use

Figure 1: An example of how negative inversion, a feature common in dialects of the US American South, can lead to incorrect classification

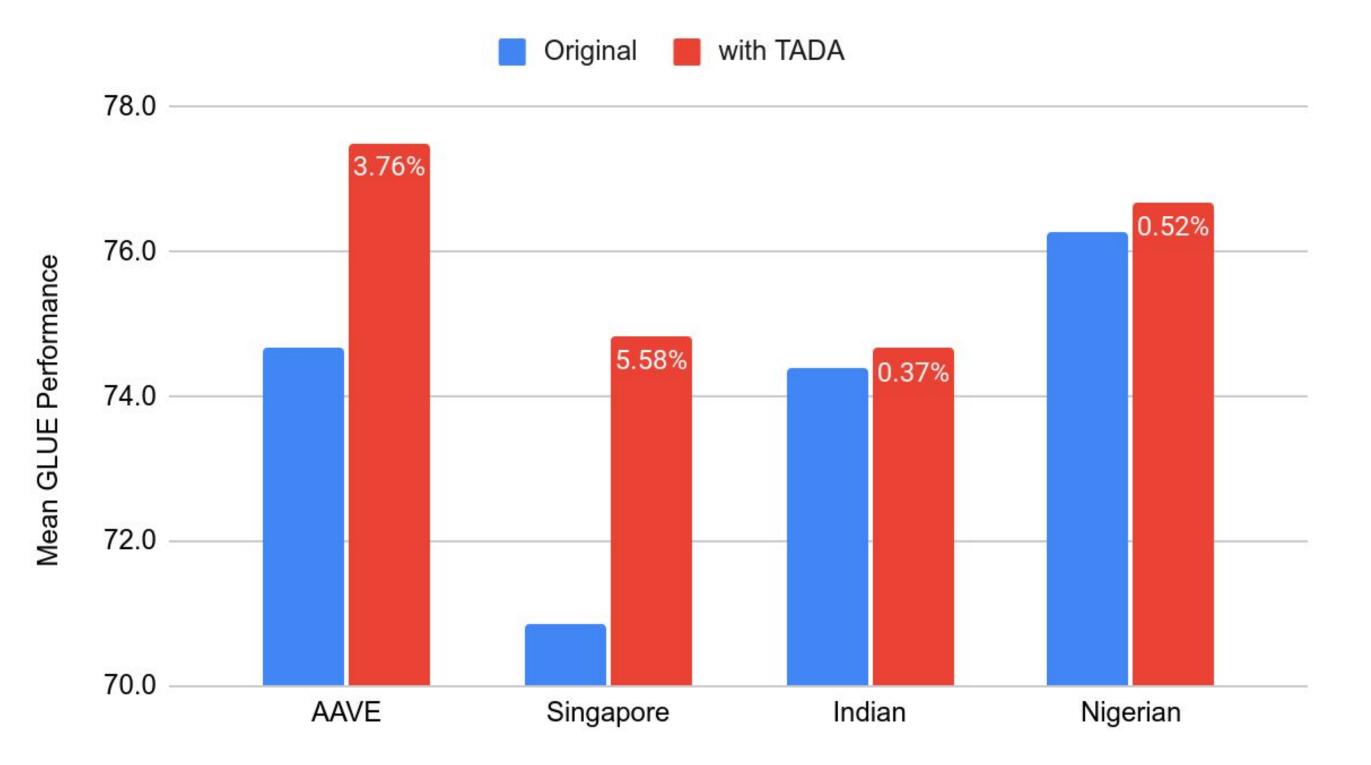


TADA creates modular adapters for task-agnostic dialect robustness in English NLP. We first generate a synthetic sentence-parallel corpus between dialects of English. We then align non-SAE dialects to SAE for task-agnostic transfer learning from SAE data.

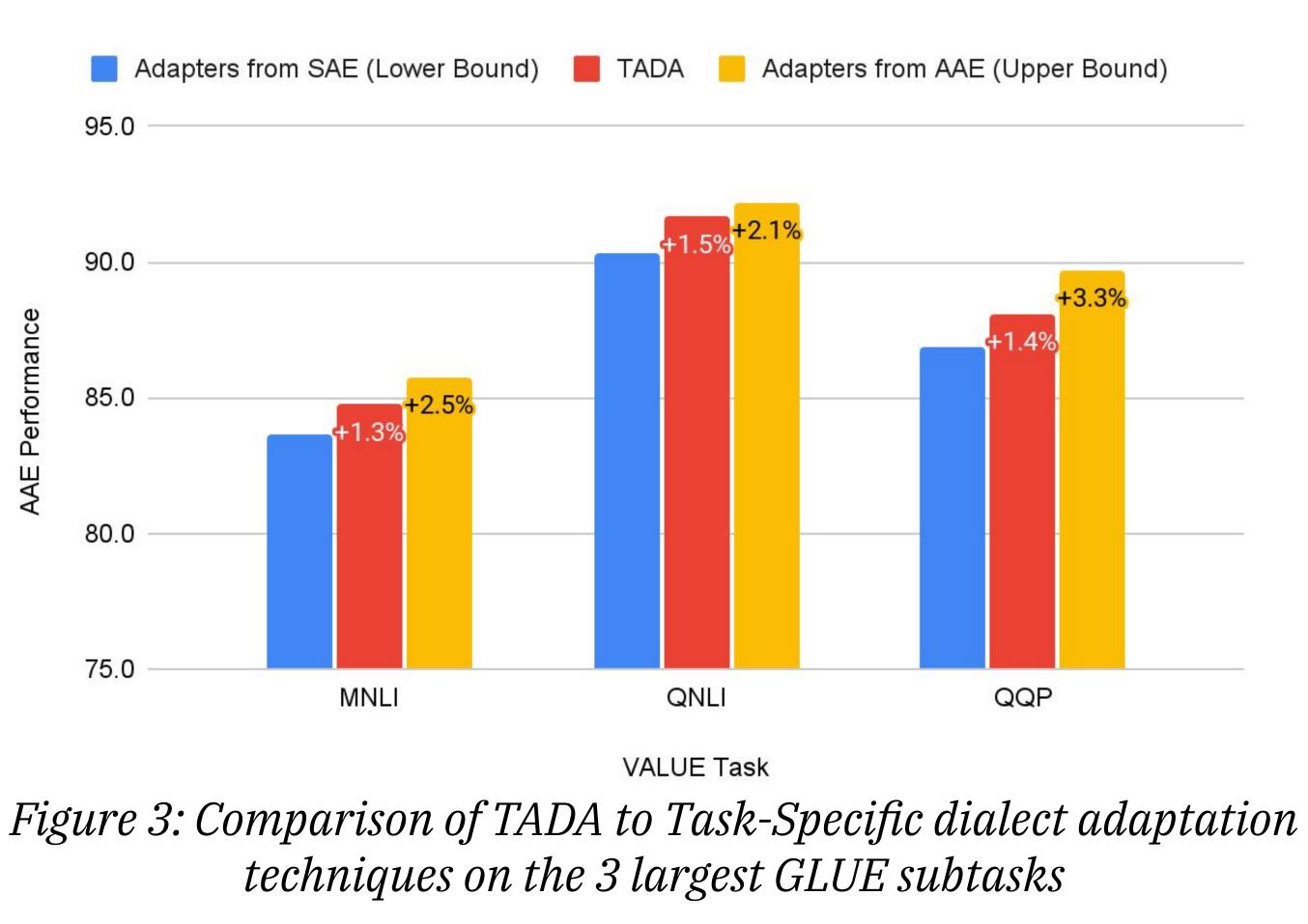
Evaluations

- TADA can be mixed with Standard American English Task Adapters for any task
- We train and release adapters which improve performance for 4 major global dialects of English spoken by over 250 Million people across the globe.

Multi-Dialectal Evaluation



Comparison To Task-Specific Methods



Dialect of English

Figure 2: Average Performance across Multi-VALUE transformed GLUE tasks for 4 global Englishes