Training and Fine-tuning Large Language Models (LLMs)

This report presents the findings from our latest machine learning project aimed at assessing various models' capabilities to handle English language learning tasks. It covers the project's objectives, methodologies adopted, models tested, and the outcomes derived from the analyses.

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1. Introduction

We aim to improve the comprehension skills model for non-native English speakers by using advanced NLP models. The report evaluates different models' performance across multiple language tasks to determine the most effective approach.

2. Methodology

Data Preparation: The dataset comprises various English language

Training Configurations: Models were trained using a 5-fold cross-validation strategy to ensure the robustness of our findings.

3. Results

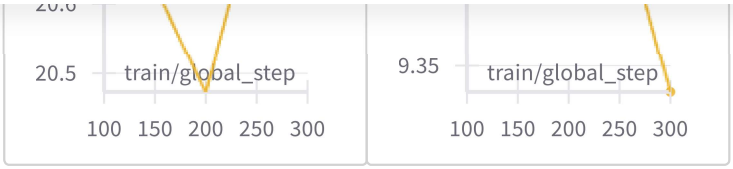
Training and Validation Loss: The report includes graphs showing the decrease in loss over epochs for each model.

Accuracy and Other Metrics: Accuracy, F1 Score, and QWK are recorded for each model, highlighting their performance.

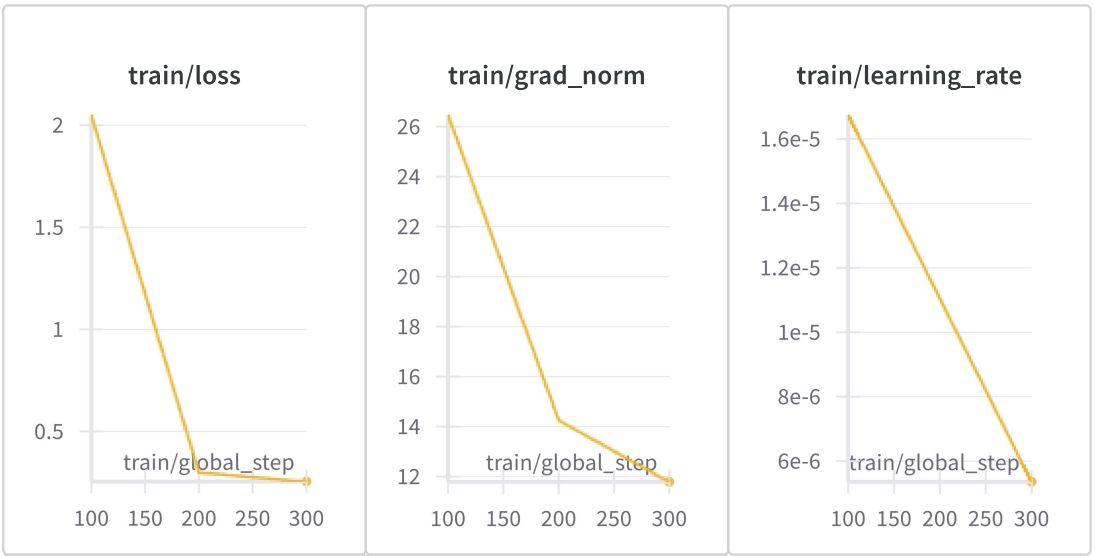
4. Discussion

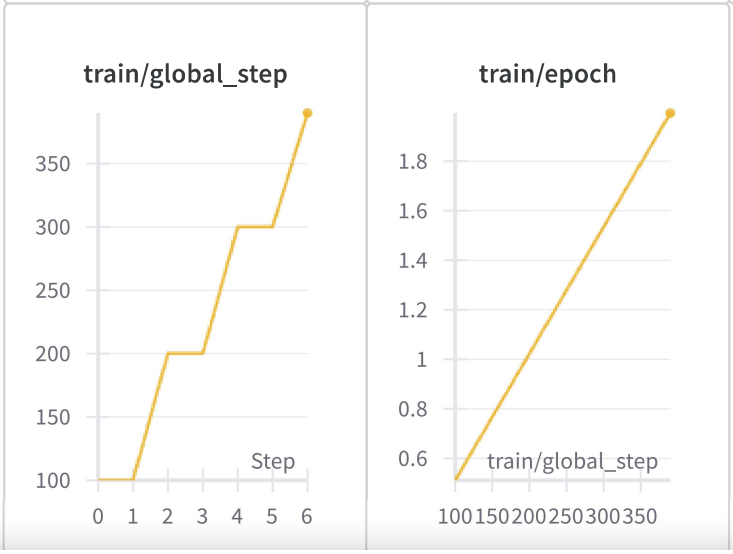
The results indicate that DeBERTa outperforms other models in understanding complex language constructs, though it requires more computational resources. Limitations include the model's less effective performance on colloquial expressions.

Eval Section



Train Section





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