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Comparison of BERT, MobileBERT, and RoBERTa <u>Models</u>

Introduction

In this document, we present the evaluation results of three models: BERT, MobileBERT, and RoBERTa, each trained with dropout rates of 0.3 and 0.7. The goal is to compare their performance on a question-answering task using BLEU scores.

Steps and Methods

Model Training

Trained BERT, MobileBERT, and RoBERTa

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Used dropout rates of 0.3 and 0.7 for each model to observe the effect on performance.

Model Evaluation

Evaluated the models on a test dataset to obtain predictions and performance metrics.

Extracted predictions from each model for BLEU score calculation.

BLEU Score Calculation

Prepared reference answers from the test data.

Calculated BLEU scores for each model at each dropout rate to measure the accuracy of predictions compared to the reference answers.

Results Compilation

Compiled and compared the BLEU scores for each model at different dropout rates.

BERT	0.6	0.8
MobileBERT	0.2	0.8
RoBERTa	1/50	1/50

