RoBERTa Accuracy on MRPC dataset 0.9 - full ---- r4 r8 <u>←</u> r16 0.85 0.8 Accuracy 0.750.7 0.651 2 3 4 5 6 7 8 9 10 Epochs

Figure 1: Comparison of RoBERTa model variants on the MRPC dataset across training epochs. full represents the original RoBERTa model. r[x] represents RoBERTa model with injected LoRA layer with rank=alpha=x.

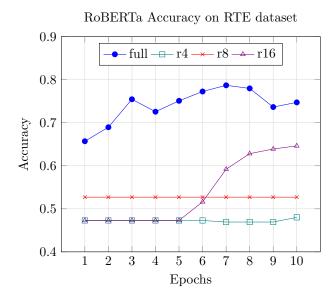


Figure 2: Comparison of RoBERTa model variants on the RTE dataset across training epochs.

RoBERTa Accuracy on SST2 dataset

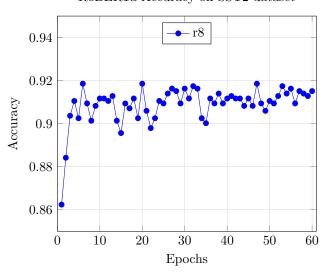


Figure 3: RoBERTa model on the SST2 dataset across 60 training epochs with injected LoRA layer of rank=alpha=8.

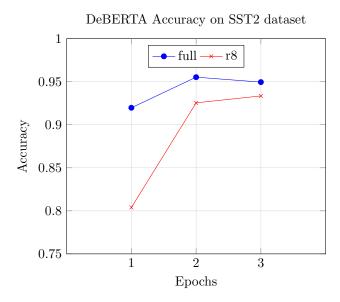


Figure 4: DeBERTa model on the SST2 dataset across 3 training epochs with injected LoRA layer of rank=alpha=8 compared to the original model.