**Assignment3 Report**

Name:

Institution (school):

Student ID:

Platform (Colab/Kaggle/Local):

Python version:

Operating system:

CPU:

GPU:

Remark: For ease of grading, you are encouraged to present data in textual form rather than as images.

1. Train a RoBERTa-base model on the same dataset and report the performance of both BERT-base and RoBERTa-base models. (10%)

Results:

* 1. Discuss the main differences between BERT and RoBERTa, and explain how these differences may affect performance. (5%)

Answer:

1. Train a GPT-2 model on the same dataset and evaluate its performance. (10%)

Results:

* 1. What are the main difference of BERT and GPT2? Discuss the main differences between BERT and GPT-2, and analyze how these differences influence their performance. (5%)

Answer:

1. Compare the performance of a multi-output learning model with BERT models trained separately on each sub-task. Does multi-output learning improve performance? Explain why or why not. (5%)

Answer:

1. Why does your model fail to correctly predict some data points? Please provide an error analysis and introduce how do you improve your performance. (10%)

Answer:

1. Anything that can strengthen your report. (5%)

Answer:

The screenshot of your training logs and evaluation accuracy. (One Figure only) (10%)