ICS 661 Assignment 3

Submit the report with the GitHub link to your source code repository.

Part I: BERT Implementation

Repeat the task from Assignment 2, but this time using BERT. You can refer to the BERT documentation [here](). Remember BERT already has a tokenizer to use. You may also consider using variants such as TinyBERT or DistilBERT for this task ([TinyBERT/DistilBERT documentation]()).

Part II: Fine-Tuning GPT-2 for Joke Generation

Dataset
You will be working with a dataset containing 1,622 short jokes.

Task
Fine-tune a GPT-2 model (see the documentation [here]()) to generate a complete joke based on the first three input words.

Example:
Given the input:
"what", "did", "the",
your model should generate a full joke, such as:
"What did the bartender say to the jumper cables? You better not try to start anything."

In your report, make sure to include:
1. Examples of generated jokes based on three starting words that **exist** in the dataset.
2. Examples of jokes generated from three randomly chosen words (not necessarily from the dataset). Analyze and discuss how well the model performs in both cases.