

Objective

This assignment introduces you to prompt engineering by generating motivational text using the GPT-2 language model. You'll compare GPT-2-generated text with human-written references and evaluate the quality of your prompts using **BERTScore**.

Part 1 – Load GPT-2 Model

Part 2 – Design Your Prompts

Write **5 distinct prompts** to instruct GPT-2 to generate **motivational quotes or content**. Each prompt should vary in structure.

Examples:

Prompt Style	Prompt Example
Direct instruction	<code>"Write a motivational quote about overcoming fear."</code>
Scenario-based	<code>"Imagine you're helping a friend who failed a test. Write something encouraging."</code>
Persona-based	<code>"As a wise monk, write a quote about inner strength."</code>
Keyword-based	<code>"Using the words 'growth', 'struggle', and 'hope', write something inspiring."</code>
Conversational	<code>"User: I feel like giving up. GPT-2: Here's a quote for you:"</code>

For each prompt, generate **3 different outputs**.

Part 3 – Get a Human-Written Reference

Collect a short, **motivational human-written quote or paragraph** on the same theme, and document the resource link.

Part 4 – Evaluate Outputs Using BERTScore

Install and use the `bert_score` package to compute semantic similarity between your GPT-2 outputs and the human reference.

Part 5 – Results Table

Create a table summarizing your results:

Prompt Type	Output #	BERTScore F1
Direct	1	0.8523
Direct	2	0.8451
...

Submission Checklist

Please submit the following:

- The 5 prompts you designed.
- All 15 GPT-2 outputs (3 per prompt).
- 1 human-written reference.
- BERTScore output table.