Assignment 1: Prompt Anatomy & Prompt Frameworks

Due: 2024-09-24 15:29 PM

Tasks

- 1. A. Apply prompt frameworks for given 5 tasks: 5 pts
- 2. Analysis: 5 pts

Total 10 pts

Python Notebook for Assignment 1

- Use the same Python Notebook file with the TA session.
 - "PE2024F_Assignment_1.ipynb" file from eTL
- Will use lower part of the notebook for the assignment 1

Topic 1: Prompt Anatomy & Prompt Frameworks

Environment Setup

Prompt Anatomy

Task(Instruction)

Persona(Role)

Exemplar(Example)

Tone

Context

Output format

Prompt Frameworks

Task 1: Generate self-introduction

Task 2: Create a blog post

Task 3: Create marketing strategies

Assignment 1: Prompt Anatomy & Prompt Frameworks

Task 4: Generate an advertising slogan for the product.

Task 5: Generate recipes for the given materials

Task 6: Lyric generator

Task 7: Planning a team project

Task 8: Chatbot for customer service

Task 9: Joke generator

Task 10: Novel project idea generator

1. Apply prompt frameworks

- For given 7 tasks and prompt examples, you should select 5 tasks and modify each prompts for better outputs.
- You can apply prompt frameworks from the lecture note, or you can use your own prompt framework.
- Include your prompts and outputs in the report file
- You will get **1 point for each task**

```
    Task 4: Generate an advertising slogan for the product.

              [14] completion = client.chat.completions.create(
                       model="gpt-4o-mini",
                       ############ TODO: Modify here ##############
                       messages=[
                            {"role": "system", "content": "You are a helpful assistant."},
      Prompt
                               "role": "user".
                               "content": """
                               Generate an advertising slogan for the mechanical keyboard
                       **************************************
                       temperature = 0.0.
                       max tokens=512
                    print(completion.choices[0].message.content)
Output
                     Type with Precision, Feel the Passion - Elevate Your Game with Every Key!
```

2. Analysis

- The analysis part must include an analysis of the following:
 - Difference between the original output and the modified output.
 - How the components of the prompt affects to the better output.
 - Highlight the prompt components in your prompts.

 There is no amount limit for the analysis section, so using LLMs for generating analysis is not effective. So just analyze on your own, do not use LLM for generating analysis report.

Submission

- Due: 9/24 (Tue), 15:29 PM (right before class)
- After you have completed the assignment, you need to submit your report as a PDF via eTL assignment submission
 - o Ex) 2024-00000.pdf
- We will calculate deducted score according to the following equation:
 - (Original_score) × (1 0.1 × ceil(delayed_days))
 - After 5 days (120 hours), there is no score.
 - Ex1) 50 hours late: 70% of the original score
 - o Ex2) 115 hours late: 50% of the original score
 - o Ex3) 120 hours late: 0% of the original score