**ADTA 5770: HW 2: Prompts & Responses**

Thuan L Nguyen, Ph.D.

**IMPORTANT NOTES:**

*--) Prompts must be closely relevant to the student’s selected domain expertise field.*

*--) The LLM must be* ***Google Gemini 2.0 Flash Thinking Experimental.***

* *For the consistency and accuracy of the prompt response evaluation, the student can* ***only use one******LLM****, Google Gemini 2.0 Flash Thinking Experimental*

**IMPORTANT NOTES:**

*--) Sample of the screenshot of the final prompt:*

**A text on a white background

AI-generated content may be incorrect.**

**NOTES:**

**--)** *This is* ***not*** *an example of a well-designed prompt. It is only used as a sample of a screenshot.*

*--) The student’s account can be* ***different*** *from “Gemini Advanced” while using the free version of the LLM.*

**IMPORTANT NOTES: Response Evaluation**

**Likert Scale 1 – 5 Questionnaire Questions on LLM Response Quality Survey**

**Use the Likert scale of 1 to 5, where:**

**1 = Not at all**

**2 = Some**

**3 = Fair**

**4 = Good**

**5 = Excellent**

To evaluate the LLM’s response quality, the student must use the above Likert scale to answer the following questions in the survey questionnaire:

**--) 1: Question 1: Usefulness and Relevance**: "**To what extent did the LLM's response directly address your prompt and provide information or assistance that was actually useful to you in your intended context?**"

**--) 2: Accuracy and Trustworthiness**: "**How accurate and factually correct do you believe the information presented in the LLM's response to be, and how much does this affect your trust in the response as a whole?**"

**--) 3: Clarity, Coherence, and Understanding**: "**How clear, well-written, and easy to understand was the LLM's response? Did you find the response logically structured and coherent in its presentation of information?**"

**--) 4: Completeness and Depth**: "**Did the LLM's response provide a sufficiently complete answer to your prompt? Did it offer enough depth or detail, or did it feel superficial or lacking in important aspects?**"

**--) 5: Overall Satisfaction and Further Assistance Needed**: "**Overall, how satisfied were you with the quality of the LLM's response to your prompt? And, based on the response, do you feel you need to issue further prompts or seek additional information from other sources to achieve your goal?**"

Student Name: …

Domain Expertise Field: …

LLM: Google Gemini 2.0 Flash Thinking Experimental

# Prompt 1: Zero-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

… ADD THE SCREENSHOT OF THE PROMPT HERE …

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 2: Zero-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 3: Zero-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 4: Zero-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 5: Zero-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 6: Few-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 7: Few-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 8: Few-Shot Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 9: In-Context Learning Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**

# Prompt 10: In-Context Learning Prompting

## Prompt: Initial Version

… ADD THE INITIAL PROMPT HERE ………….

## Prompt Design: Step by Step

### Step 1: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 2: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 3: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 4: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 5: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 6: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

### Step 7: …

…………. FOLLOW THE EXAMPLE IN LECTURE: PROVIDE DETAIL ……..

## PROMPT: Final Version

… ADD THE FINAL PROMPT HERE ………….

## Response: Final Version

… COPY the response HERE ………….

## Response Analysis and Evaluation

**… SHOULD BE BLANK FOR HW 2… WILL BE COMPLETED IN HW 3 …**