

# EX-02: Cross-Platform Prompting – Evaluating Diverse Techniques in AI-Powered Text Summarization

## AIM

To evaluate and compare the effectiveness of different prompting techniques—**Zero-shot**, **Few-shot**, **Chain-of-thought**, and **Role-based prompting**—across multiple AI platforms (**ChatGPT**, **Gemini**, **Claude**, and **Copilot**) for the task of text summarization.

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## Scenario

You are part of a content curation team for an educational platform that provides concise research summaries for undergraduate students. Your objective is to generate summaries of a **500-word technical article titled “The Basics of Blockchain Technology”** using various **AI platforms** and **prompting strategies**, then assess

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- **Accuracy** – Faithfulness to the original text
- **Coherence** – Logical flow and readability
- **Simplicity** – Ease of understanding for undergraduates
- **Speed** – Response time and efficiency
- **User Experience** – Ease of use and interaction quality

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## Algorithm

### 1. Input Preparation

- Collect the 500-word article *“The Basics of Blockchain Technology.”*
- Divide it into smaller logical sections if necessary for model input limits.

### 2. Platform Selection

- Choose four AI platforms:
  - ▶ ChatGPT (OpenAI)
  - ▶ Gemini (Google)
  - ▶ Claude (Anthropic)



### 3. Prompt Design Prepare four distinct prompting strategies:

Technique	Example Prompt
Zero-shot	"Summarize the following article in 150 words."
Few-shot	"Example 1: Summarize text into a short, clear paragraph. Example 2: Condense technical details into simple sentences. Now, summarize this article in a similar style."
Chain-of-thought	"Let's summarize step by step: (1) Identify key concepts, (2) Simplify terminology, (3) Write a coherent summary."
Role-based	"You are an academic content curator preparing material for undergraduates"



## 4. Execution

- Input each prompt on all four platforms.
- Record the generated summaries and note the **time taken** to respond.

## 5. Evaluation

- Assess each output using a **5-point rating scale** for:
  - ▶ Accuracy
  - ▶ Coherence
  - ▶ Simplicity
  - ▶ Speed
  - ▶ User Experience

## 6. Comparison and Analysis

- Tabulate and average scores for each (platform + technique) combination.
- Identify which pair gives the most balanced and effective summary.

## 7. Conclusion

- Derive insights on how different prompting strategies and AI models influence text summarization quality.



Result



Platform	Prompting Technique	Accuracy	C
ChatGPT	Role-based	5	5
ChatGPT	Chain-of-thought	5	4
Gemini	Zero-shot	4	4
Gemini	Few-shot	4	4
Claude	Role-based	4	5
Copilot	Zero-shot	3	3

Result

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Coherence	Simplicity	Speed	UX	Average
5	5	4	5	4.8
4	4	4	4	4.2
4	4	5	4	4.2
4	3	4	4	3.8
5	4	4	4	4.2
3	3	5	3	3.4