

## PE ASSIGNMENT

**Prompt Writing Practice Objective: Learn prompt structures and master prompt engineering techniques by writing and comparing prompts.**

Q\n : Write 5 prompts for the following categories:

- ⊕ Summarization
- ⊕ Rewriting
- ⊕ Code generation Role-based prompts (e.g., "Act like a Data Scientist...")
- ⊕ Prompt to generate structured content (tables, JSON, etc.)

For each prompt, do the following:

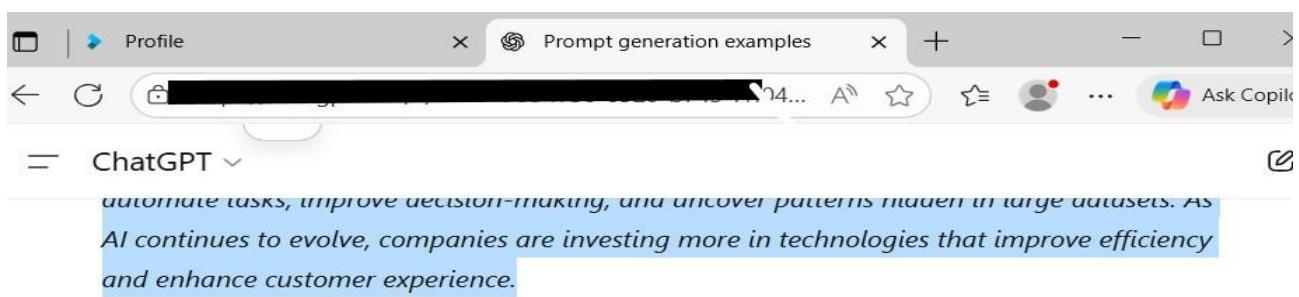
- ⊕ Run it on ChatGPT or similar LLM
- ⊕ Take a screenshot of the response
- ⊕ Refine your prompt to improve the output and explain the difference Deliverables

Sol : Here is the paragraph I'll use:

### Paragraph:

*Artificial intelligence is becoming increasingly important in modern industries. It helps automate tasks, improve decision-making, and uncover patterns hidden in large datasets. As AI continues to evolve, companies are investing more in technologies that improve efficiency and enhance customer experience.*

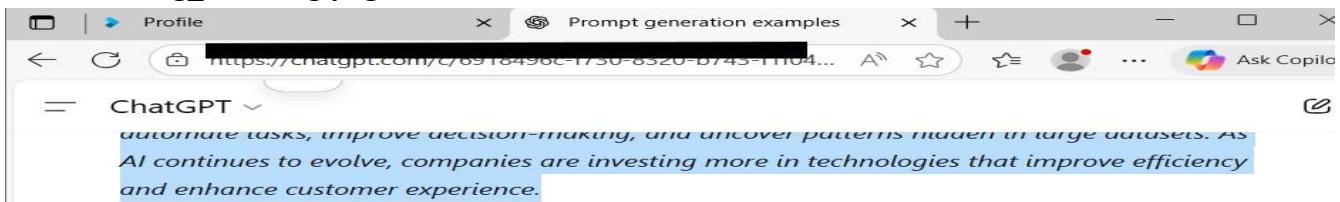
### Before Summarizing.png:



### A) Summary

Artificial intelligence is playing a growing role in industries by automating tasks and improving decision-making. It reveals insights from large datasets and continues to evolve, leading companies to invest in technologies that boost efficiency and customer experiences.

## After Refining\_rewriting.png:



### A) Summary

Artificial intelligence is playing a growing role in industries by automating tasks and improving decision-making. It reveals insights from large datasets and continues to evolve, leading companies to invest in technologies that boost efficiency and customer experiences.

### B) Rewritten Version

Artificial intelligence is gaining major importance across many industries. It streamlines work, supports better decisions, and identifies trends in large amounts of data. As the technology advances, businesses are increasing their investment in AI to enhance productivity and improve how they serve customers.

## Code Generation.png :



### C) Code Generation Example (Python)

```
python
Copy code

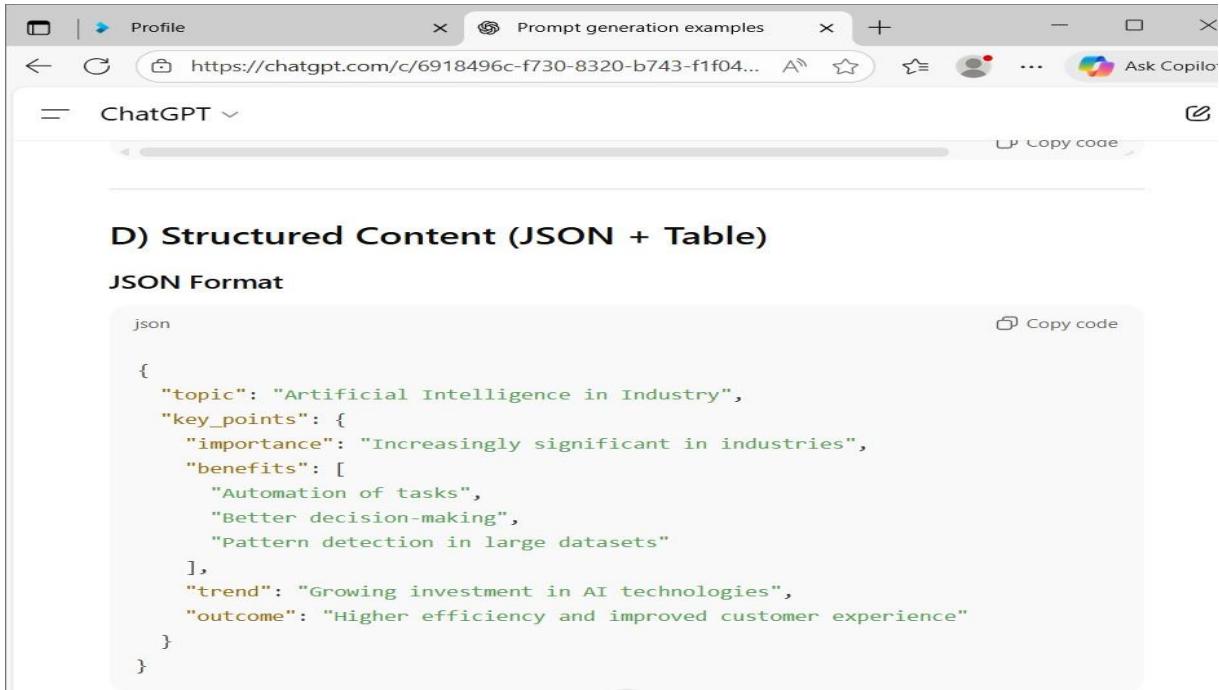
text = """Artificial intelligence is becoming increasingly important in modern in
It helps automate tasks, improve decision-making, and uncover patterns hidden in
As AI continues to evolve, companies are investing more in technologies that impr
and enhance customer experience."""

# Simple word frequency counter
from collections import Counter
import re

words = re.findall(r'\w+', text.lower())
frequency = Counter(words)

print("Word Frequency:")
for word, count in frequency.items():
    print(word, ":", count)
```

## Structured Content.png :



The screenshot shows a web browser window with the URL <https://chatgpt.com/c/6918496c-f730-8320-b743-f1f04...>. The page title is "Prompt generation examples". The content area displays a JSON code snippet under the heading "D) Structured Content (JSON + Table)". The JSON code is as follows:

```
json
{
  "topic": "Artificial Intelligence in Industry",
  "key_points": {
    "importance": "Increasingly significant in industries",
    "benefits": [
      "Automation of tasks",
      "Better decision-making",
      "Pattern detection in large datasets"
    ],
    "trend": "Growing investment in AI technologies",
    "outcome": "Higher efficiency and improved customer experience"
  }
}
```

## Reflection :

- The original instructions were scattered and lacked explicit formatting expectations, which could result in incomplete or disorganized outputs.
- By breaking the tasks into numbered steps with specific expectations, the refined prompt ensures consistent quality and makes it easier for the model to understand exactly what to deliver.
- The improvements demonstrate how a well-crafted prompt guides the model more effectively, leading to cleaner, more accurate, and more comprehensive results.

Aspect	Details
Importance	AI is becoming essential in modern industries.

Benefits	Automates tasks, improves decisions, finds hidden patterns
Trend	Companies are investing more in AI technologies
Outcome	Better efficiency and improved customer experience

**Reflection(Table Format):**