AI & Prompt Engineering

ASSIGNMENT 2

YOUR NAME : DEVIKA N D

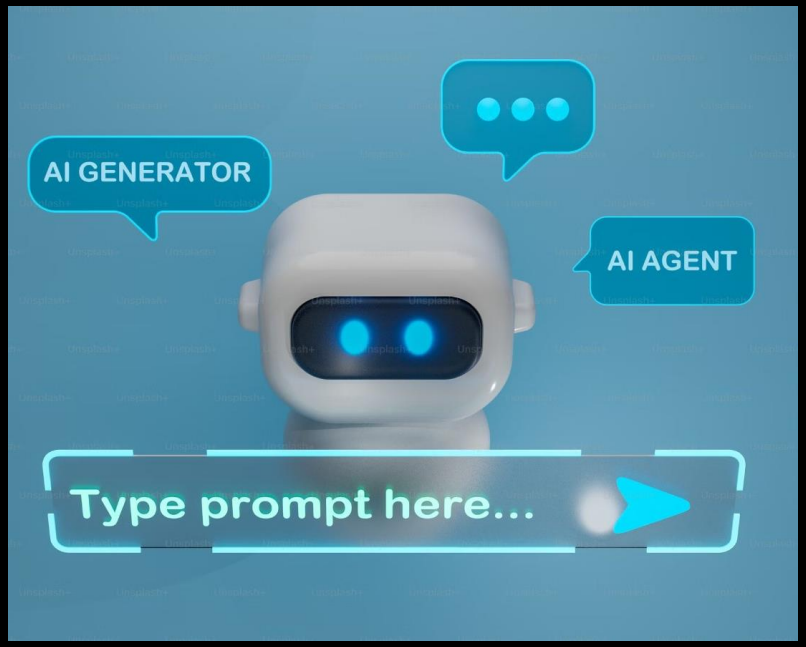
EMAIL ID : devikashetty2716@gmail.com

AICTE ID : STU67fca08f8d71317446094 23

Introduction to AI

- AI simulates human intelligence in machines.
- Enables systems to think, learn, and make decisions.
- Types: Narrow AI (task-specific) & General AI (human-like).
- Examples: Voice assistants, self-driving cars, diagnostics.

Introduction to Prompt Engineering



- Crafting effective inputs (prompts) to guide AI outputs.
- Used with Large Language Models (LLMs) like GPT-4, claude.
- Improves accuracy, creativity, and efficiency.
- Example: Specific prompts yield better results.

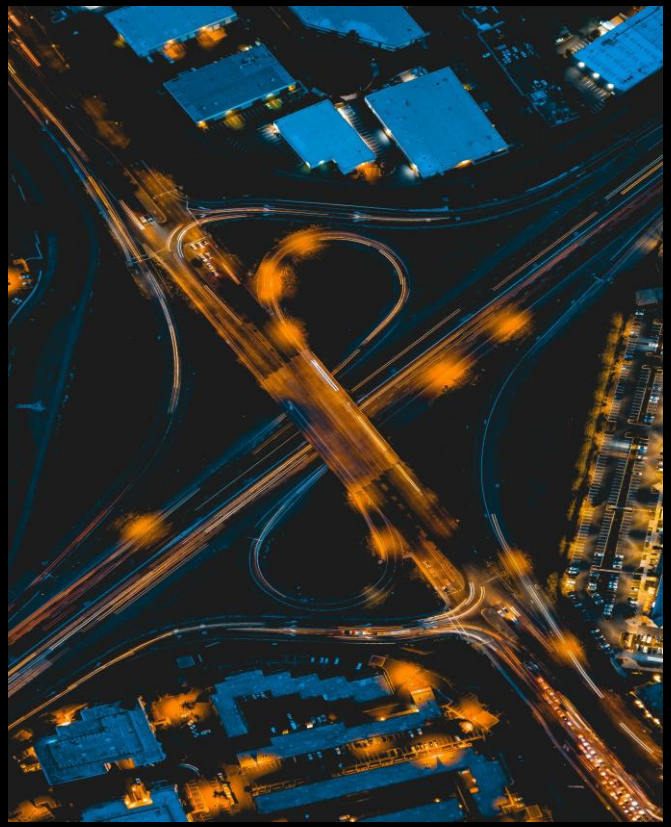
Importance & Applications

- AI in healthcare, finance, and education.
- Prompt engineering accelerates content creation.
- Better decision-making through optimized prompts.




Key Concepts in AI

- Machine Learning – learning from data.
- Deep Learning – layered neural networks.
- NLP – understanding and generating language.
- Computer Vision – recognizing images and objects.



Key Concepts in Prompt Engineering

- Prompt Structure: Context + Task + Constraints.
- Few-shot and Zero-shot learning.
- Chain-of-Thought prompting for complex tasks.
- Role-based and style-based prompt control.

Future Scope

- AI integration in all industries.
- Evolution from prompt engineering to AI orchestration.
- Ethical AI and bias reduction.
- New AI-related job opportunities.

Conclusion & References

- AI is transforming industries worldwide.
- Prompt engineering maximizes AI potential.
- References: OpenAI Docs, Google AI Blog, MIT Tech Review.

THANK YOU