

Prompt Engineering

The art of communicating with AI

Presented by
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SRI LANKA TECHNOLOGICAL CAMPUS
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Your coach



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- Current:
 - Head of the Department of Applied IT
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 - HoD, ICT & Media Faculty, SAITM
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What is Prompt Engineering?

Crafting inputs to elicit desired responses
from AI models



Key Concepts

- Prompt Design
- Contextualization
- Iterative Refinement

The Role of Prompts in AI

- Influence on Model Output
- Use in Various AI Applications:
 - Natural Language Processing (NLP)
 - Image Generation
 - Conversational Agents

Techniques for Effective Prompt Engineering

- Understanding the Model:
 - Model Capabilities and Limitations
- Prompt Structuring:
 - Clear Instructions
 - Specificity vs. Generality

Example Tools for Prompt Engineering

- OpenAI's Playground:
 - User-friendly interface for testing prompts
 - Real-time feedback
- Hugging Face's Transformers:
 - Open-source library for various models
 - Flexibility in prompt design
- GPT Sandbox:
 - Experimentation environment for prompts
 - Visualize different outputs

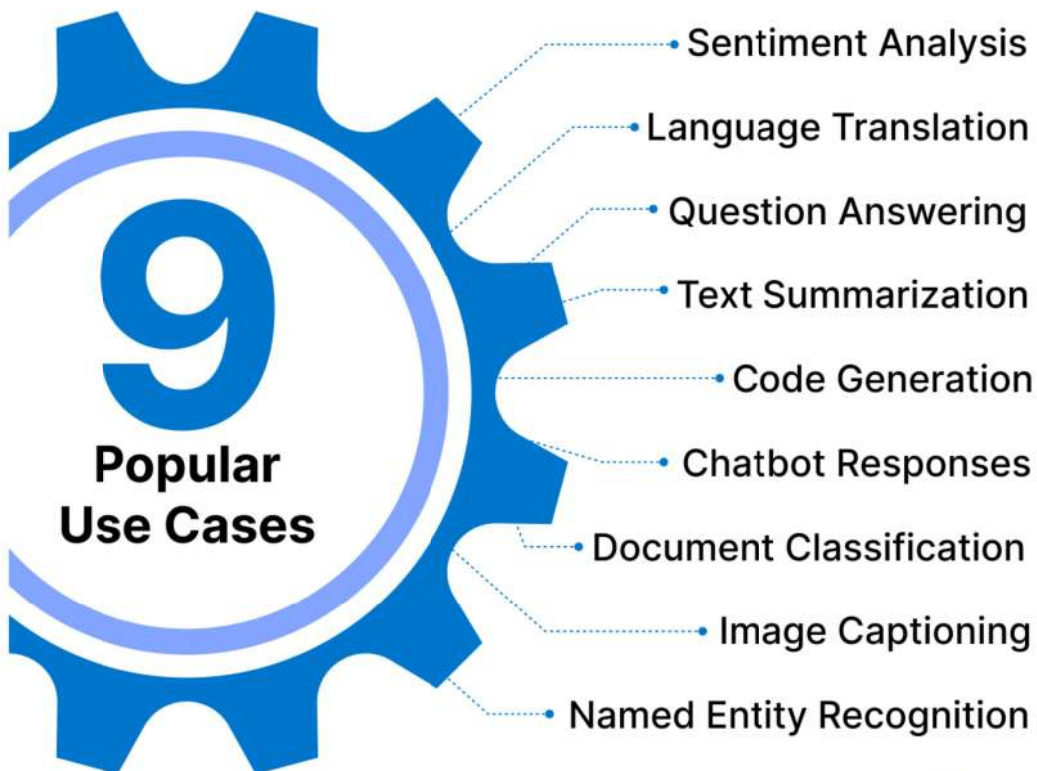
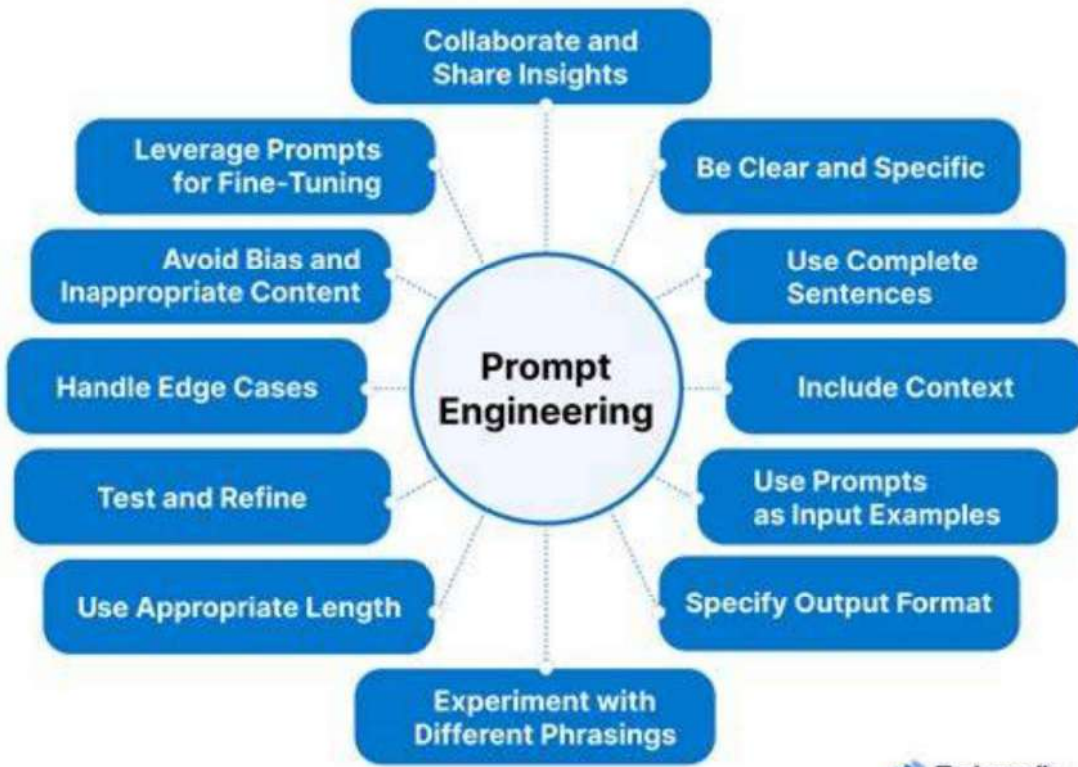
Prompt Engineering in Chatbots

- Scenario: Customer Support Chatbot
- Initial Prompt:
 - "How can I assist you today?"
- Refined Prompt:
 - "Welcome to [Company Name]! How can I help you with your account or recent order?"

- Scenario: Story Generation
- Initial Prompt:
 - "Write a story about a hero."
- Refined Prompt:
 - "Write a fantasy story about a young hero discovering their magical powers in a hidden world."

Future of Prompt Engineering

- Emerging Trends:
 - Integration with AI Ethics
 - Enhancing Model Interpretability
- The Role of AI in Automation:
 - Automated Prompt Generation
 - Real-time Prompt Optimization



5 non-tech prompt engineering skills



Language



Communication



Creativity



Critical thinking



Subject matter expertise

—zapier

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Step-by-step guide to becoming a prompt engineer



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Prompt Engineer



The Role

- Work with cross-functional teams to discuss product development
- Identify uses of AI tools
- Design, develop and refine AI-generated text prompts

Background

- Bachelor's degree in Computer Science or Machine Learning or a related field
- Additional certifications recommended

Skills

- Excellent knowledge of natural language processing
- Knowledge of machine learning
- Comprehensive knowledge of AI-generated content development

Salary

Junior: \$ 280,000
Average: \$ 327,000
Senior: \$ 375,000



Lecturer Contacts

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