AI Prompt Engineering Program

Module 1: Introduction to AI and Prompt Engineering

Objective:
Gain a foundational understanding of artificial intelligence and prompt engineering.

Topics Covered:

- What is Artificial Intelligence?
- Understanding Natural Language Processing (NLP)
- Introduction to Prompt Engineering
- Applications of AI in Everyday Life
- Ethical Considerations in AI Use
- Hands-on Exercise: Generating Basic Text Outputs with AI Tools

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Module 2: Crafting Effective Prompts

Objective:
Learn how to create effective prompts that yield accurate AI responses.

Topics Covered:

- Anatomy of a Good Prompt
- Types of Prompts (Open-Ended vs. Specific)
- Common Prompting Mistakes to Avoid
- The Importance of Context and Clarity
- Hands-on Exercise: Crafting Prompts for Different AI Applications

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Module 3: AI Tools and Practical Applications

Objective:
Explore AI tools and how to apply prompt engineering in real-world scenarios.

Topics Covered:

- Overview of Popular AI Tools (ChatGPT, Google Gemini, Claude, etc.)
- Using AI for Content Creation, Productivity, and Analysis
- Basic Troubleshooting Techniques for AI Responses
- Ethical Use of AI in Business and Personal Applications
- Hands-on Exercise: Implementing AI in Daily Tasks

Module 4: Advanced Prompt Optimization Strategies (Advanced Level)

Objective:
Optimize prompts for precision, accuracy, and efficiency.

Topics Covered:

- Understanding AI Model Limitations
- Advanced Techniques (Few-shot, Zero-shot, Chain-of-Thought)
- Using System Instructions for Better Output Control
- Experimenting with Temperature and Max Tokens
- Hands-on Exercise: Improving Prompt Outputs through Iteration

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Module 5: AI Prompt Engineering for Business and Industry

Objective:
Leverage AI prompt engineering to solve industry-specific challenges.

Topics Covered:

- Customizing Prompts for Marketing, Finance, Healthcare, and More
- Building AI-Powered Workflows for Efficiency
- Case Studies of AI-Driven Business Success
- Developing AI Assistants for Customer Support
- Hands-on Exercise: Designing Business-Specific AI Solutions

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Module 6: Ethics, Security, and Future Trends in AI

Objective:
Understand the ethical and security challenges in AI and stay ahead of emerging trends.

Topics Covered:

- AI Bias and Ethical Dilemmas
- Data Privacy and Security Concerns in Prompt Engineering
- Regulations and Compliance in AI Usage
- The Future of AI and Evolving Prompt Strategies
- Hands-on Exercise: Ethical AI Use Case Scenarios

Certification Awarded:

- AI Prompt Engineering Specialist (AIPES)