



## **OpenAI/ChatGPT Embedding and Development within Microsoft (AI-900 & AI-102)**

### **Course Introduction:**

Welcome to the comprehensive course on "OpenAI/ChatGPT Embedding and Development within Microsoft (AI-900 & AI-102)". This course is designed to provide you with a deep understanding of how to integrate and develop AI solutions using OpenAI's ChatGPT within Microsoft's ecosystem. You will learn foundational AI concepts, explore advanced development techniques, and gain hands-on experience in deploying AI models effectively. By the end of this course, you will be well-equipped to leverage AI technologies in real-world applications.

### **Module 1: Introduction to AI and OpenAI's ChatGPT**

- **Understanding Artificial Intelligence:** Explore the foundational concepts of AI, including its history, evolution, and impact on modern technology.
- **Overview of OpenAI and ChatGPT:** Gain insights into OpenAI's mission, and ChatGPT's capabilities, and how it has transformed natural language processing.
- **Key Features of ChatGPT:** Examine the unique features and functionalities of ChatGPT that make it a powerful tool for AI development.

### **Module 2: Microsoft AI Fundamentals (AI-900)**

- **Microsoft AI Platform Overview:** Discover the AI offerings on the Microsoft platform, including Azure AI services and their applications.
- **Machine Learning Concepts:** Learn the basics of machine learning, including supervised and unsupervised learning, and their relevance to AI solutions.
- **Responsible AI and Ethics:** Understand the importance of ethical considerations in AI development and Microsoft's commitment to responsible AI.

### **Module 3: Integrating ChatGPT with Microsoft Technologies**

- **Azure OpenAI Service:** Explore how to access and use ChatGPT through Azure, including setting up and managing your environment.
- **API Integration Techniques:** Dive into API integration methods for embedding ChatGPT into various Microsoft services and applications.



- **Case Studies and Use Cases:** Review real-world scenarios where ChatGPT integration has enhanced business processes and customer interactions.

## **Module 4: Advanced AI Development (AI-102)**

- **Designing AI Solutions:** Develop skills in designing AI solutions that meet specific business needs using Microsoft's tools and frameworks.
- **Developing Conversational AI:** Learn advanced techniques for creating interactive, natural language interfaces using ChatGPT and Microsoft technologies.
- **Performance Optimization:** Master strategies for optimizing AI model performance and ensuring scalability within enterprise environments.

## **Module 5: Deployment and Management of AI Solutions**

- **Deploying AI Models on Azure:** Gain practical experience in deploying AI models using Azure's infrastructure, ensuring reliability and efficiency.
- **Monitoring and Maintenance:** Understand best practices for monitoring AI solutions and maintaining their performance over time.
- **Security and Compliance:** Learn how to ensure AI solutions meet security standards and compliance requirements within Microsoft's ecosystem.

## **Module 6: Certification Preparation and Career Pathways**

- **Exam Preparation for AI-900 & AI-102:** Get tips and resources to prepare effectively for Microsoft certification exams AI-900 and AI-102.
- **Career Opportunities in AI:** Explore various career paths in AI development and how Microsoft certifications can enhance your professional growth.
- **Building a Professional Portfolio:** Learn how to compile a robust portfolio showcasing your AI projects and skills to potential employers.

## **Conclusion and Next Steps:**

- **Course Recap and Key Takeaways:** Summarize the critical concepts covered throughout the course and their applications in real-world scenarios.
- **Continuing Education and Resources:** Discover additional resources and learning opportunities to further your AI knowledge and skills.



- **Final Assessment and Feedback:** Complete a comprehensive assessment to evaluate your understanding and provide feedback on the course experience.

This course is designed to equip you with the knowledge and skills required to excel in AI development and deployment using OpenAI's ChatGPT within the Microsoft ecosystem. Engage with each module to maximize your learning and prepare for a successful career in AI.