Develop AI cloud solutions on Azure

Course code: MOC AI-200

In this course, developers will learn how to build, monitor, and manage AI solutions on Microsoft Azure. Students will learn how to implement Azure compute and container services for hosting applications, create serverless APIs using Azure Functions, and integrate Azure services for event-driven and message-based architectures, such as Azure Service Bus and Event Grid. The course also covers Azure data services that support AI solutions, including designing and building solutions with Azure Cosmos DB for NoSQL, Azure Database for PostgreSQL (with pgvector), and Azure Managed Redis for caching, streaming, and vector search. By the end of the course, developers will be able to integrate AI services, orchestrate AI workflows, and build secure, scalable, and observable AI applications on Azure.

Who is the course for

- This course is designed for developers who want to build modern backend and AI applications on Azure and gain practical experience in designing, developing, and securing them.

What we teach you

- Explore the AI services available on Azure
- Learn the key AI concepts on Azure
- Learn how to get started with developing AI agents on Azure

Required skills

- 2+ years of programming experience
- Experience with programming using the Azure SDK
- Basic knowledge of Microsoft Azure

Course outline

- Implementing containerized applications hosted on Azure
- Deploying and managing applications on Azure Container Apps
- Deploying and managing applications on Azure Kubernetes Service (AKS)
- Developing AI applications using Azure Cosmos DB for NoSQL
- Developing AI applications using Azure Database for PostgreSQL
- Enhancing AI applications with Azure Managed Redis
- Using Azure Service Bus for AI applications
- Managing secrets and configuration in AI applications
- Monitoring and troubleshooting applications on Azure

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