

NS3EDU – Azure Agentic AI Curriculum

Industry-Oriented | Job-Focused | Hands-On Training

Program Overview

The NS3EDU Azure Agentic AI Program is designed to build strong foundations in Artificial Intelligence to advanced Agentic AI systems using Microsoft Azure. This curriculum focuses on LLMs, autonomous agents, Azure OpenAI, orchestration, security, and real-world AI automation projects, making learners industry-ready AI Engineers.

LEVEL 1: Azure AI & Generative AI Fundamentals (Beginner Level)

Part 1: AI & Agentic AI Basics

- Introduction to Artificial Intelligence
- Generative AI Concepts
- What is Agentic AI
- AI vs Agentic Systems
- Use Cases of Agentic AI

Part 2: Azure AI Fundamentals

- Azure AI Services Overview
- Azure Cognitive Services
- Azure Machine Learning Basics
- Azure AI Studio Overview

Part 3: Azure OpenAI Fundamentals

- Azure OpenAI Service Overview
- GPT Models & Capabilities
- Prompt Engineering Basics
- Token, Temperature & Parameters

LEVEL 2: Agentic AI Development on Azure (Intermediate Level)

Part 4: Building AI Agents

- Agent Architecture
- Tool-Using Agents
- Planning & Reasoning Agents
- Memory in AI Agents

Part 5: Agent Orchestration

- Multi-Agent Systems
- Agent-to-Agent Communication
- Task Decomposition
- Workflow Automation

Part 6: Azure Integration

- Agents with Azure Functions
- Agents with Azure Logic Apps
- Agents with Azure Storage & Search
- API & Tool Integration

LEVEL 3: Advanced Agentic AI & Enterprise Deployment (Professional Level)

Part 7: Advanced Agent Design

- AutonomousDecisionMaking
- Long-Term Memory Agents
- Self-Improving Agents
- Human-in-the-Loop Systems

Part 8: Security, Ethics & Governance

- AISecurity & Data Privacy
- Responsible AI on Azure
- Model Monitoring & Guardrails
- Compliance & Risk Management

Part 9: Real-World Agentic AI Projects

- AICustomer SupportAgent
- Autonomous Data Analysis Agent
- Enterprise Workflow Automation Agent
- Multi-Agent Business Solution

Part 10: Career & Certification Preparation

- AzureAI Engineer Roles
- Microsoft Azure AI Certifications Overview
- Agentic AI Interview Questions
- Portfolio & Project Guidance

- Mock Interviews

Tools & Technologies Covered

- Azure OpenAI Service
- Azure AI Studio
- Azure Functions
- Azure Cognitive Services
- LangChain / Semantic Kernel (Intro)
- Python
- REST APIs

Outcome

Learners become job-ready Azure Agentic AI Engineers, capable of designing, building, deploying, and managing autonomous AI agents on Microsoft Azure for real-world enterprise use cases.

Learn Today (\$\$) Earn Tomorrow

YOUR FUTURE OUR RESPONSIBILITY



Free
consulting



Get trained
with certified
trainers



24X7
Lab access



Get
placed



Employability
enhancement
program



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