

# 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**

- Autonomous Decision Making
- Long-Term Memory Agents
- Self-Improving Agents
- Human-in-the-Loop Systems

## **Part 8: Security, Ethics & Governance**

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

## **Part 9: Real-World Agentic AI Projects**

- AI Customer Support Agent
- Autonomous Data Analysis Agent
- Enterprise Workflow Automation Agent
- Multi-Agent Business Solution

## **Part 10: Career & Certification Preparation**

- Azure AI 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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