



# AI Adoption Workshop for Technical Users (AI-AITU)

## COURSE OVERVIEW

This Instructor Led Workshop will provide technical teams an overview of AI and will by the workshops end have everyone creating AI solutions.

## COURSE OUTLINE

### Day 1: Introduction to AI and Azure AI Fundamentals

- Welcome and Workshop Overview
  - Introduction to the workshop objectives and agenda
  - Importance of AI in modern technology
  - Overview of Microsoft Azure AI services
- Understanding AI Workloads and Considerations
  - Definition and types of AI workloads
  - Ethical considerations and responsible AI
  - Use cases and industry applications
- Fundamental Principles of Machine Learning on Azure
  - Introduction to machine learning concepts
  - Azure Machine Learning services
  - Hands-on lab: Creating a simple machine learning model
- Computer Vision Workloads on Azure
  - Overview of computer vision and its applications
  - Azure Computer Vision services
  - Hands-on lab: Building a computer vision solution

### Day 2: Deep Dive into AI Workloads

- Natural Language Processing (NLP) Workloads on Azure
  - Introduction to NLP and its use cases
  - Azure Cognitive Services for language
  - Hands-on lab: Implementing an NLP solution
- Conversational AI Workloads on Azure
  - Basics of conversational AI and chatbots
  - Azure Bot Services and Language Understanding (LUIS)
  - Hands-on lab: Creating a chatbot
- AI Solution Design Principles
  - Overview of AI solution design principles
  - Planning and scoping AI projects
  - Case studies and best practices



### Day 3: Building and Integrating AI Solutions

- Building AI-Infused Applications
  - Integrating AI services into applications
  - Using REST-based APIs for AI solutions
  - Hands-on lab: Developing an AI-infused application
- Azure AI Search and Knowledge Mining
  - Introduction to Azure AI Search
  - Implementing knowledge mining solutions
  - Hands-on lab: Creating a knowledge mining solution
- Generative AI and Azure OpenAI
  - Overview of generative AI and its applications
  - Using Azure OpenAI for generative AI solutions
  - Hands-on lab: Building a generative AI application

### Day 4: Deploying, Managing, and Scaling AI Solutions

- Deploying AI Solutions
  - Best practices for deploying AI models
  - Monitoring and maintaining AI solutions
  - Hands-on lab: Deploying an AI solution on Azure
- Scaling AI Solutions
  - Strategies for scaling AI projects
  - Performance optimization and cost management
  - Case studies of scalable AI solutions
- Workshop Wrap-Up and Next Steps
  - Summary of key learnings
  - Q&A session
  - Resources for further learning
  - Planning next steps for AI adoption in your organization

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