AI Transformation on Azure Cloud Training

Course Duration: 12 Hours **Course Code: ATAC-101**

1. Course Overview

AI Transformation on Azure Cloud Training is designed to help professionals and organizations leverage the power of **Microsoft Azure AI services** to build intelligent, scalable, and business-ready solutions. This course covers end-to-end AI implementation—from data handling to deploying machine learning models—using Azure tools and services.

2. What You'll Learn

- Fundamentals of AI and Machine Learning on Azure
- Working with **Azure Machine Learning Studio**
- Building, training, and deploying ML models
- Using **Azure Cognitive Services** for vision, speech, and language AI
- Data processing with **Azure Data Factory**
- Implementing AI solutions using Python
- Model evaluation and optimization techniques
- Deploying AI models using Azure cloud infrastructure
- Real-world AI use cases for business transformation

3. Target Audience

- IT Professionals & Cloud Engineers
- Data Analysts & Data Scientists
- Software Developers
- Digital Transformation Leaders

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- Business Analysts
- Anyone interested in AI & Cloud technologies

4. Pre-Requisites

- Basic understanding of cloud computing
- Familiarity with programming (preferably Python)
- Basic knowledge of data handling and analytics
- Understanding of databases is a plus (not mandatory)

5. Course Content

Module 1: Introduction to AI & Azure

- Overview of AI concepts
- Introduction to Azure AI ecosystem

Module 2: Azure Machine Learning

- Creating ML workspace
- Data preparation and model training
- AutoML and pipelines

Module 3: Azure Cognitive Services

- Computer Vision API
- Speech-to-Text and Text-to-Speech
- Natural Language Processing

Module 4: Data Engineering on Azure

- Data ingestion with Azure Data Factory
- Data storage using Azure Blob Storage

Module 5: Model Deployment

- Deploying models using Azure ML

- Creating APIs for AI models
- Monitoring and scaling models

Module 6: AI Use Cases & Projects

- Chatbot development
- Predictive analytics
- Recommendation systems

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