

Al & Generative Al Bootcamp

Course Duration: 15 days
No. of Hours: 08 hours/day

Note: Exploring labs/exercises for Module 05 & Module 06 would require an OpenAl /Azure OpenAl subscription from the students. The subscription can be bought from here: https://platform.openai.com/account/billing/overview

Module 1: Python – 3 Day

- Introduction
- Data Types
- Variables
- Decision Control Files
- Operators
- List, Tuples, Sets, Dictionary
- Functions and Methods
- File Handling
- Module
- String
- Iterators and Generators
- Regular Expressions
- OO Programming Concepts
- Numpy
- Pandas
- Matplotlib

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Module 2: Machine Learning Essentials – 3 Day

- Machine Learning (ML) Lifecycle
- Statistics & Mathematics
- Feature Selection Technique
- Linear regression
- Logistic Regression
- Classification Decision Trees & Random Forests
- Classification Naive Bayes
- Clustering (K-Means)
- Classification SVM (Support Vector Machines)
- Principal Component Analysis (PCA)
- Recommendation (Content based filtering & Collaborative filtering)

Module 3: AI-900 Microsoft Azure AI Fundamentals – 2 Day

- Cloud Concepts
- Describe Artificial Intelligence workloads and considerations
- Describe fundamental principles of machine learning on Azure



- Describe features of computer vision workloads on Azure
- Describe features of Natural Language Processing (NLP) workloads on Azure
- Describe features of generative AI workloads on Azure

Module 4: AI-102 Designing and Implementing a Microsoft Azure AI Solution – 4 Day

- Plan and manage an Azure AI solution
- Implement decision support solutions
- Implement computer vision solutions
- Implement natural language processing solutions
- Implement knowledge mining and document intelligence solutions
- Implement generative AI solutions

Module 5: ChatGPT for End Users – 1 Day

- Understand ChatGPT capabilities in various tasks
- Learn text prompting techniques for enhanced results
- Apply effective prompting techniques for different tasks
- Explore different OpenAI applications
- Learn image prompting techniques for enhanced results
- Understand prompt reliability and privacy concerns

Module 6: Azure OpenAI training for Developers- 2 Day

- Introduction to Azure OpenAI
- Azure OpenAI libraries and models
- Text Completion Model
- Code Completion Model
- Image Generation Model
- Fine-tuning of models