

Course Name	Transforming Applications with OpenAI Integration
Course Duration	2 Days (16 hours)
Target Audience	Developer, Application Users
Course Outcomes	Understand OpenAI & ChatGPT Architecture and Capabilities
	Effective prompting techniques using Python SDK
	Transform Applications with OpenAI Integration
	Create a Serverless ChatGPT and an Image Generation Application using OpenAI.

Requirements:

- OpenAI API Key is a must. Student should have its own free/paid working subscription of OpenAI to access OpenAI services to perform exercise: <https://platform.openai.com/account/api-keys>
- Azure pass access will be provided as a tenant to perform the lab during the training duration only.
- Courseware – Reference material / ppt along with lab files

Module 01: Introduction to OpenAI & ChatGPT	
1.1	Need & Vision of OpenAI
1.2	Working & Architecture of ChatGPT
1.3	Capabilities & Limitations of ChatGPT
1.4	Prompt Optimization Techniques for ChatGPT
1.5	Concept of Token & Temperature
1.6	Architecture of a OpenAI Solution
Module 02: Text Prompting Techniques with OpenAI using Python SDK	
2.1	Prompting Principles
2.2	Iterative Prompting
2.3	Prompting for Summarization
2.4	Inference Prompting
2.5	Transformation Prompting
2.6	Prompting for Personalized Bot
2.7	Extra: Chat Model using Python SDK
2.8	Extra: Chat Completion Model using Python SDK
2.9	Extra: Embedding Models using Python SDK
Module 03: Application Transformations using OpenAI	
3.1	Create Serverless ChatGPT using Azure Function & OpenAI
3.2	Integrate Microsoft Excel & ChatGPT
3.3	Integrate Power Automate and ChatGPT

3.4	Integrate Power Apps and ChatGPT
3.5	Integrate Microsoft Outlook and ChatGPT
3.6	Integrate Airtable and ChatGPT
3.7	Create an Image Generation Application using OpenAI DALL.E 2