

Master Class: Integrating OpenAI ChatGPT with Microsoft Services Deep Dive (OAICGPTWS)

ID OAICGPTWS Price 4,950.— €(excl. tax) Duration 5 days

Course Overview

Our five-day hands-on workshop teaches you how to leverage and combine ChatGPT with multiple Microsoft services. The course combines valuable product insights with highly interactive hands-on labs empowering learners on all distinct services with the ultimate goal of building their own cross-service mini-AI application and realize the true value of the OpenAI & Microsoft product combinations.

Who should attend

This course is for who wants to benefit from learning more about the capabilities and how to interact with ChatGPT:

- Developers and programmers interested in integrating natural language processing (NLP) into their applications or building chatbots and virtual assistants.
- Researchers in the fields of machine learning, natural language processing, and artificial intelligence who want to study and experiment with language models.
- Business professionals seeking to leverage AI technology to improve customer service, enhance marketing efforts, or automate repetitive tasks.
- Anyone interested in exploring the capabilities of AI and learning how to interact with a chatbot or virtual assistant.
- Students and educators looking to study or teach NLP and AI-related courses.

Course Content

- Introduction to OpenAI, GPT-3.5/4 and ChatGPT
- Understanding the architecture and functioning of ChatGPT
- ChatGPT Capabilities and Limitations
- How to access and use ChatGPT
- Discover what else you can do with ChatGPT
- Introduction to PowerApps
- Microsoft Dataverse
- Power Automate Overview
- Introduction to PowerBI
- Introduction to Power Virtual Agents

- Working with OpenAI API
- Connecting OpenAI API with Power Platforms using the Microsoft Connector
- OpenAI API Integration
- Python Application with OpenAI SDK
- Website .Net Core integration with OpenAI SDK
- Website .Net C# Core integration with OpenAI SDK

Detailed Course Outline

Day 1: ChatGPT Fundamentals

Module 1: Introduction to OpenAI, GPT-3.5/4 and ChatGPT

- What is OpenAI?
- What is GPT-3.5/4?
- What is ChatGPT and how it was launched?

Module 2: Understanding the architecture and functioning of ChatGPT

- The structure of ChatGPT
- ChatGPT pricing
- Other Models
- ChatGPT vs GPT-3.5/4

Module 3: ChatGPT Capabilities and Limitations

- Capabilities of ChatGPT
- Limitations of ChatGPT

Module 4: How to access and use ChatGPT

- How to access ChatGPT
- How to use ChatGPT
- Example prompts.
- Tips and Tricks

Module 5: Discover what else you can do with ChatGPT

- How to make money using ChatGPT
- ChatGPT API integrations

Labs

- Lab 1: Getting Familiar with ChatGPT

Day 2: What are PowerApps and Power Automate

Module 1: Introduction to PowerApps

- What is PowerApps and what can it do for you?
- What is Canvas App
- What is a Model Driven App
- Security and Administration in PowerApps

Module 2: Microsoft Dataverse

- Introduction to Microsoft Dataverse
- Microsoft Dataverse Benefits
- Relational Databases and Relationships

Module 3: Power Automate Overview

- Introduction to Power Automate
- Benefits of Power Automate
- What can we do with Power Automate
- Power Automate Flows types
- Key concepts
- Efficient Scale Automation
- Example: A purchase order approval

Labs

- Lab 1: Getting Started with PowerApps
- Lab 2: Getting Started with Dataverse
- Lab 3: Getting Started with Power Automate

Day 3: What are PowerBI and Power Virtual Agents

Module 1: Introduction to PowerBI

- What is PowerBI?
- Gathering Data
- PowerBI Components
- The PowerBI building blocks
- Getting started with PowerBI
- Consuming PowerBI in Power Platform

Module 2: Introduction to Power Virtual Agents

- What is Power Virtual Agents
- What can Power Virtual Agents do for you?
- The components of Power Virtual Agents
- Power Virtual Agents AI Capabilities
- Bot Authoring advanced AI features
- Topic Conversation Path Design
- Bot Testing and Publishing

Labs

- Lab 1: Getting started with PowerBI
- Lab 2: Getting started with Power Virtual Agent

Day 4: Integration of GPT-3.5/4 with Power Platforms

Module 1: Working with OpenAI API

- What is an API and how does it work?
- OpenAI API functionality
- Integrating OpenAI API with Power Platforms

Module 2: Connecting OpenAI API with Power Platforms using the Microsoft Connector

- Microsoft's OpenAI connector
- Integrating PowerApps with GPT-3.5/4
- Integrating PowerBI with GPT-3.5/4
- Integrating Power Automate with GPT-3.5/4
- Integrating Power Virtual Agent with GPT-3.5/4
- Advantages and Case Scenarios

Labs

- Lab 1: Integrating OpenAI API with Power Platforms

Day 5: Development with OpenAI SDK

Module 1: OpenAI API Integration

- Where can we integrate OpenAI API?
- API vs SDK
- OpenAI API General how-to steps

Module 2: Python Application with OpenAI SDK

- Python SDK Basics
- Creating a python application
- Upgrading our python application

Module 3: Website .Net Core integration with OpenAI SDK

- Understanding the architecture of .Net core
- Adding OpenAI SDK to .Net core
- Fine tuning

Module 4: Website .Net C# Core integration with OpenAI SDK

- C# and .NET Core Basics
- Creating a website with AI functionality
- Image generation with DALL-E

Labs

- Lab 1: Creating a Python AI Application



- Lab 2: Creating an AI website

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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