# Fast Lane

# 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
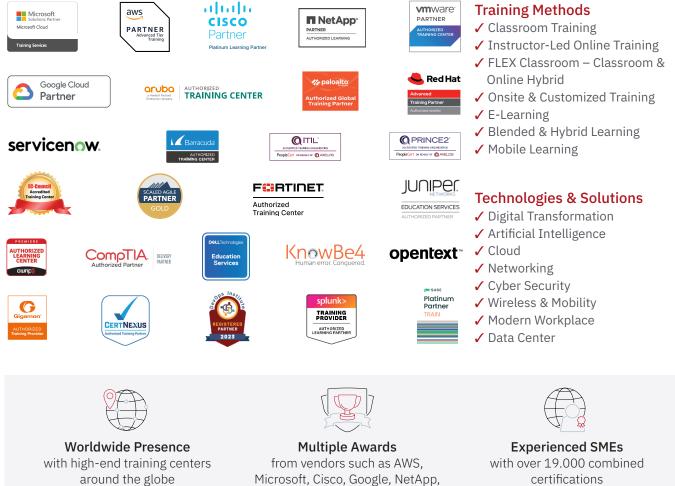- Image generation with DALL-E

**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.

## Fast Lane Services
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✓ Business & Soft Skill Training
✓ Consulting Services
✓ Managed Training Services
✓ Digital Learning Solutions
✓ Content Development
✓ Remote Labs
✓ Talent Programs
✓ Event Management Services

## Training Methods
✓ Classroom Training
✓ Instructor-Led Online Training
✓ FLEX Classroom – Classroom & Online Hybrid
✓ Onsite & Customized Training
✓ E-Learning
✓ Blended & Hybrid Learning
✓ Mobile Learning

## Technologies & Solutions
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✓ Cloud
✓ Networking
✓ Cyber Security
✓ Wireless & Mobility
✓ Modern Workplace
✓ Data Center

### Worldwide Presence
with high-end training centers around the globe

### Multiple Awards
from vendors such as AWS, Microsoft, Cisco, Google, NetApp, VMware

### Experienced SMEs
with over 19.000 combined certifications

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