Faysal Aziz

# AI Unboxed

## From Fundamentals to Frontier—Empowering ERP and QA Leaders with Real-World AI Skills in 2 to 3 days

FA-0078 · 3 days

Agentic & Generative AI · Software Development

## Introduction

Artificial Intelligence (AI) is not just a buzzword but a transformative force reshaping industries. For ERP managers, functional and technical testers, and service managers, understanding AI's intricacies is no longer optional—it's imperative. This comprehensive three-day course is meticulously designed to bridge the gap between theoretical AI concepts and practical applications, ensuring participants are well-equipped to harness AI's potential in their respective domains.

Led by an instructor boasting over 30 years of industry experience, this course transcends academic theory, delving deep into real-world, industry-demanded content. Participants will explore the inner workings of AI, master the art of prompt engineering across various platforms like ChatGPT, DeepSeek, CoPilot, Claude, and Gemini, and venture into the realms of AI-driven video generation with tools like Midjourney and Sora. Furthermore, the course offers hands-on experience with APIs using Python and guides attendees through the nuances of self-hosting large language models (LLMs) from Hugging Face, culminating in the implementation of Retrieval-Augmented Generation (RAG) systems.

## Learning outcomes

By the end of this course, participants will be able to:

- Comprehend the foundational principles and architectures underpinning modern AI systems.
- Craft effective prompts tailored to various AI platforms, optimizing outputs for specific tasks.
- Evaluate and compare the capabilities of leading AI tools, both free and paid versions, to determine the best fit for organizational needs.
- Utilize AI tools like Midjourney and Sora for advanced video generation tasks.
- Integrate AI functionalities into existing systems using APIs and Python.
- Deploy and manage self-hosted LLMs, ensuring data security and customization.
- Implement RAG systems to enhance information retrieval and decision-making processes.

# Prerequisites

To ensure a productive learning experience, participants should have:

- A foundational understanding of ERP systems and their operational workflows.
- Basic proficiency in Python programming.
- Familiarity with software testing methodologies and service management principles.
- An eagerness to explore and adopt emerging AI technologies.

# Training outline

## 1. 1. Foundations of AI

**1.1 Evolution and Impact of AI**

- Historical context and milestones in AI development.
- The transformative role of AI in modern enterprises.

**1.2 Core Concepts and Architectures**

- Understanding neural networks, machine learning, and deep learning.
- Exploring large language models (LLMs) and their applications.

**1.3 AI in the Enterprise Landscape**

- Integration of AI in ERP systems.
- Case studies highlighting AI-driven efficiencies in service management.

# 2. 2. Mastering Prompt Engineering

**2.1 Principles of Effective Prompting**

- Understanding the anatomy of a prompt.
- Techniques for refining prompts to achieve desired outcomes.

**2.2 Platform-Specific Prompting Strategies**

**ChatGPT**

- Leveraging conversational AI for customer support scenarios.

**DeepSeek**

- Utilizing DeepSeek for data analysis and insights.

**CoPilot**

- Integrating CoPilot for code generation and debugging tasks.

**Claude**

- Employing Claude for ethical decision-making simulations.

**Gemini**

- Harnessing Gemini for real-time information retrieval and structured planning.

**2.3 Comparative Analysis**

- Evaluating the strengths and limitations of each platform.
- Assessing cost-benefit scenarios between free and paid tiers.

# 3. 3. AI-Driven Video Generation

**3.1 Introduction to Generative Video AI**

- Understanding the capabilities and applications of AI in video content creation.

**3.2 Hands-On with Midjourney**

- Creating visual narratives from textual prompts.
- Customizing outputs for marketing and training materials.

**3.3 Exploring Sora and Other Tools**

- Generating realistic video scenes using Sora.
- Integrating AI-generated videos into ERP training modules.

# 4. 4. Integrating AI via APIs and Python

**4.1 API Fundamentals**

- Understanding RESTful APIs and their role in AI integration.

**4.2 Practical Python Applications**

- Writing Python scripts to interact with AI platforms.

- Automating routine tasks within ERP systems using AI.

**4.3 Security and Compliance**

- Ensuring data privacy and compliance when integrating AI solutions.(Plural)

# 5. 5. Deploying Self-Hosted LLMs and Implementing RAG

**5.1 Setting Up Self-Hosted LLMs**

- Introduction to Hugging Face and its ecosystem.
- Steps to deploy and manage LLMs on-premises.

**5.2 Retrieval-Augmented Generation (RAG)**

- Understanding the RAG architecture and its benefits.
- Implementing RAG for enhanced data retrieval and decision support.

**5.3 Customizing LLMs for Organizational Needs**

- Fine-tuning models with domain-specific data.
- Ensuring scalability and performance optimization.

This course is meticulously crafted to ensure that ERP managers, functional and technical testers, and service managers not only grasp the theoretical aspects of AI but also gain hands-on experience, enabling them to drive innovation and efficiency within their organizations.

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