

AI Essentials: Prompt Engineering & Copilot

Learn to apply AI fundamentals, prompt engineering and Copilot tools to automate tasks and support analytical decision-making.

1 Day

8 HOURS A DAY

4

MODULES

42

TOPICS

COURSE OVERVIEW

AI Essentials for Industry Professionals course at Koenig Solutions is designed to equip you with foundational AI knowledge and practical skills. The course covers AI Fundamentals and various types of AI, including Machine Learning and Deep Learning, to understand AI's applications across different industries. You'll master Prompt Engineering to effectively fine-tune language models, and use ChatGPT and Copilot for daily communication, automating tasks in Excel and generating interactive reports. Additionally, the course emphasizes Analytical Thinking to improve decision-making with AI tools. By the end of this course, you'll be able to apply AI concepts in real-world scenarios and enhance your professional skills. Enroll today to stay ahead in the rapidly evolving tech landscape.

WHO THIS COURSE IS FOR

AI Essentials for Industry Professionals is designed to provide a comprehensive foundation in artificial intelligence and its applications across industries. It is suitable for professionals seeking to enhance their AI knowledge and skills.

Data Scientists

Machine Learning Engineers

Business Analysts

IT Managers

Software Developers

Data Analysts

AI Researchers

Product Managers

Technology Consultants

Business Intelligence Professionals

Financial Analysts

HR Professionals focused on data-driven decisions

Operations Managers

Marketing Analysts

Academic Researchers in AI

Entrepreneurs and Start-up Founders in Tech

Management Consultants

R&D Specialists

Digital Transformation Leaders

IT Trainers and Educators

What You Will Learn

- Explain AI fundamentals including machine learning and deep learning
- Identify AI applications across healthcare, finance and manufacturing
- Apply prompt engineering techniques to craft effective prompts
- Implement fine-tuning methods for language models using prompts
- Use ChatGPT and Copilot for data analysis and visualisation in Excel
- Build interactive reports with ChatGPT-generated insights
- Apply automation techniques to streamline communication processes
- Analyse AI projects using analytical thinking to improve decisions

COURSE SYLLABUS

4 Modules, 42 Topics

01

AI Fundamentals

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Definition and scope · History and evolution

TYPES OF AI: FROM NARROW TO GENERAL INTELLIGENCE

Narrow AI · General AI · Superintelligent AI

MACHINE LEARNING BASICS: SUPERVISED, UNSUPERVISED, AND REINFORCEMENT LEARNING

Supervised learning · Unsupervised learning · Reinforcement learning

DEEP LEARNING FUNDAMENTALS: NEURAL NETWORKS, CNNs, RNNs

Neural networks · Convolutional Neural Networks (CNNs) · Recurrent Neural Networks (RNNs)

AI APPLICATIONS ACROSS INDUSTRIES

Healthcare · Finance · Retail · Manufacturing

02

Prompt Engineering Mastery

UNDERSTANDING PROMPT ENGINEERING: BASICS AND IMPORTANCE

Definition and significance · Key principles

CRAFTING EFFECTIVE PROMPTS FOR AI MODELS

Techniques for prompt formulation · Examples and best practices

FINE-TUNING LANGUAGE MODELS WITH PROMPTS

Methods for fine-tuning · Practical examples

LEVERAGING PROMPT ENGINEERING FOR SPECIFIC TASKS

Use cases in different domains · Problem-solving with prompts

CASE STUDIES ON PROMPT ENGINEERING SUCCESSES

Real-world examples · Lessons learned

03

ChatGPT and Copilot for Daily Communication

INTRODUCTION TO AI INTEGRATION WITH EXCEL AND COMMUNICATION TOOLS

Overview of integration techniques · Benefits and use cases

USING CHATGPT FOR BASIC DATA ANALYSIS AND VISUALIZATION IN EXCEL

Data analysis techniques · Visualization tools in Excel

INCORPORATING CHATGPT FOR AI-DRIVEN INSIGHTS IN DAILY CONVERSATIONS

Practical examples · Using ChatGPT for communications

BUILDING INTERACTIVE REPORTS WITH CHATGPT-GENERATED INSIGHTS IN EXCEL

Best practices · Creating dynamic reports

AUTOMATION TECHNIQUES FOR STREAMLINED COMMUNICATION PROCESSES

Automation tools and techniques · Examples and case studies

04

Importance of Analytical Thinking with AI Tools

UNDERSTANDING ANALYTICAL THINKING IN THE CONTEXT OF AI

Definition and significance · Key principles

ENHANCING DECISION-MAKING SKILLS WITH ANALYTICAL THINKING

Techniques for critical analysis · Practical exercises

APPLYING ANALYTICAL THINKING TO AI TOOLS

Use cases and applications · Problem-solving strategies

CASE STUDIES ON ANALYTICAL THINKING IN AI PROJECTS

Real-world examples

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com

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