



Where trainees meet real Support

AI with Python

Learn Python • Work with Data • Build AI Solutions

About the Course

- Structured learning journey from **Python fundamentals to applied AI**
- Designed for **beginners and working professionals**
- Covers Python, data analysis, Machine Learning and Generative AI
- Develop skills through **guided coding and application-oriented learning**
- Complete a **guided AI project** aligned with your learning goals

Who Can Attend?

- Students and recent graduates
- Software and IT professionals
- Developers, testers, analysts and support professionals
- Professionals planning to transition towards **AI-enabled roles**
- Beginners looking for a structured entry into AI

No previous AI experience is required. The starting point will be aligned with the learner's existing Python and technical knowledge.

Learning Themes

1. Python Programming for AI

- Essential Python programming
- **Problem-solving and logical thinking**
- Writing clean and reusable code
- Functions, data structures and error handling
- **Hands-on coding practice**

2. Data Analysis with Python

- Working with practical datasets
- Data preparation, exploration and visualization
- Identifying patterns and generating insights
- Practical application of **NumPy, Pandas, Matplotlib and Seaborn**

3. Machine Learning Foundations

- Understanding the **Machine Learning lifecycle**
- Preparing data for model development
- Building and evaluating selected models
- Applying Machine Learning to **business scenarios**
- **Hands-on implementation using scikit-learn**

4. Generative AI with Python

- Understanding Generative AI and Large Language Models
- Prompting and model interaction
- Connecting Python with AI models
- Exploring text and document-based business scenarios
- **Responsible and practical use of AI**

5. Guided AI Project

- One guided Machine Learning or Generative AI project
- Application of learning to a real-world problem
- **Practical implementation and evaluation**
- **Project documentation and presentation guidance**

Technologies Covered

• Python	• Scikit-learn
• Jupyter Notebook	• Generative AI models and APIs
• NumPy and Pandas	• Streamlit and Git (as needed)
• Matplotlib and Seaborn	•

Tools will be selected according to the learner's level, project requirements and program duration.

What Learners Will Gain

- **Practical Python skills** for AI
- Confidence in working with real-world datasets
- Understanding of Machine Learning workflows
- Exposure to **Generative AI development**
- Experience applying learning to a real project
- Ability to explain the **project approach and outcomes**
- A structured foundation for continued AI learning

Why Choose This Course?

- **Real-world examples, datasets and business scenarios**
- **Interactive sessions** with live demonstrations
- Focus on understanding and application - not theory alone
- Technical concepts explained from both technology and business perspectives
- **Personalised depth and pace** based on the learner's background
- **Mentor-led support** for project development and presentation
- Curriculum aligned with current industry applications of AI

General Trainer Profile

- More than **20 years of technology industry experience**
- Exposure to **enterprise AI and Generative AI initiatives**
- Experience across technology, product, delivery and consulting
- Corporate and individual training experience
- **Practical, interactive and mentor-led teaching approach**

Flexible Learning Path

The learning themes remain consistent, while the starting point, topic depth, exercises and project will be **fine-tuned based on the learner's current knowledge, professional background, learning objective and selected program duration.**