



PYTHON TRAINING

Python For Ai Course

Learn to build powerful AI and machine learning models using Python. Master essential libraries for developing intelligent applications.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

Unlock the power of Artificial Intelligence by leveraging your Python expertise with Computer Pride's 'Python For AI Course'. This intensive, intermediate-level program is meticulously designed for IT professionals, developers, and data enthusiasts looking to bridge their foundational Python skills with the exciting world of AI. Over two focused hours, you will delve into essential AI concepts, learn to utilize core Python libraries crucial for machine learning, and gain hands-on experience in implementing basic AI models. This course emphasizes practical application, equipping you with the tools and understanding to start building intelligent solutions.

By completing this course, you will not only understand the fundamental principles driving AI but also acquire immediately applicable skills. You'll learn how to set up your AI development environment, preprocess data effectively, and train simple machine learning models using Python's robust ecosystem. This knowledge is invaluable for enhancing your problem-solving capabilities, automating tasks, and creating smarter applications, ultimately boosting your professional profile in an increasingly AI-driven technological landscape.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Foundations of AI and Python's Role

- Introduction to Artificial Intelligence and Machine Learning
- Why Python is the Language of AI
- Setting up Your AI Development Environment (Anaconda, Jupyter Notebooks)
- Essential Python Libraries for AI: NumPy and Pandas Overview

02 Module 2: Core Machine Learning Concepts with Scikit-learn

- Understanding Supervised vs. Unsupervised Learning
- Introduction to Scikit-learn: The ML Toolkit
- Data Preprocessing Techniques (Handling Missing Data, Feature Scaling)
- Building Your First ML Model: Classification Basics

03 Module 3: Practical AI Application and Model Evaluation

- Training and Testing Machine Learning Models
- Evaluating Model Performance (Accuracy, Precision, Recall)
- Brief Introduction to Regression Models
- Next Steps in Your AI Learning Journey

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Junior Machine Learning Engineer**

> **Data Analyst with AI Specialization**

> Python Developer specializing in AI Features

FREQUENTLY ASKED QUESTIONS

Q: What specific Python knowledge should I have before enrolling in this Intermediate Python For AI Course?

To get the most out of this course, you should have a solid grasp of Python fundamentals, including variables, data types (lists, dictionaries, tuples), control flow (if/else, loops), functions, and basic object-oriented programming concepts. Familiarity with standard library usage is also beneficial, as the course quickly moves into applying these skills to AI concepts.

Q: How will the skills acquired in this 2-hour course contribute to my career progression in AI, given its concise duration?

This focused 2-hour course is designed to provide a high-impact introduction, equipping you with the foundational understanding and practical skills to confidently approach basic AI tasks using Python. It serves as an excellent accelerator, allowing you to quickly bridge from general Python development to AI-specific applications. While it doesn't cover advanced topics, it provides a crucial stepping stone, enabling you to understand AI project workflows, use key libraries, and articulate basic AI concepts, making you a more valuable asset in roles involving data analysis and introductory machine learning projects.

Q: Does this course cover advanced AI topics like deep learning, natural language processing (NLP), or computer vision frameworks such as TensorFlow/PyTorch?

Due to its concise 2-hour duration and intermediate focus, this course primarily concentrates on introducing core AI concepts and practical machine learning applications using Python's Scikit-learn library. While it lays a strong foundation for understanding AI, it does not delve into advanced deep learning frameworks like TensorFlow or PyTorch, nor does it extensively cover specialized fields such as NLP or computer vision. It prepares you with the prerequisites to explore those advanced areas independently or in subsequent specialized courses.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke