



PYTHON TRAINING

Python Ai ML Course

Master Python for AI and Machine Learning. Build intelligent applications and solve complex data problems.

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

Dive into the rapidly evolving world of Artificial Intelligence and Machine Learning with our intensive 2-hour Python AI/ML Course. Designed for Python developers ready to bridge into the data science realm, this fast-paced workshop provides a foundational yet practical understanding of key AI and ML concepts, powered by Python's robust ecosystem. You will gain hands-on experience with industry-standard libraries like NumPy, Pandas, Scikit-learn, and an introduction to deep learning with Keras, equipping you with essential skills for modern data-driven challenges. This course focuses on practical application, enabling you to grasp core principles and immediately begin building simple AI and ML models.

This highly condensed program is perfect for individuals looking to kickstart their journey in AI/ML or consolidate existing Python knowledge with machine learning fundamentals. By the end of this workshop, you will be able to preprocess data, train basic machine learning models, and understand the basic architecture of neural networks. You will not only learn the 'how' but also the 'why' behind common techniques, setting a strong foundation for further specialization and unlocking numerous opportunities in the burgeoning fields of data science and artificial intelligence.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Python Essentials for AI & ML (Rapid Review)

- Setting up your Python environment (Jupyter/Colab)
- NumPy for efficient numerical operations (arrays, basic operations)
- Pandas for data loading and manipulation (DataFrames, cleaning basics)

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

- Understanding Supervised vs. Unsupervised Learning
- Introduction to Regression (Linear Regression) and Classification (Logistic Regression)
- Hands-on: Implementing basic models with Scikit-learn
- Data splitting for training and testing

03 Module 3: Introduction to Neural Networks and Deep Learning

- Basic concepts of Artificial Neural Networks (ANNs)
- Activation functions and their purpose
- Building a simple feedforward neural network with Keras (high-level overview)
- Training and making predictions with a basic neural network

04 Module 4: Model Evaluation and Next Steps

- Understanding common evaluation metrics (accuracy, precision, recall overview)
- Brief discussion on overfitting and underfitting
- Resources and pathways for continued AI/ML learning
- Q&A and practical project ideas

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Data Analyst transitioning to Machine Learning**
- > **Entry-level AI Development Support Specialist**
- > **Python Developer aspiring to Machine Learning Engineering**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for taking this 2-hour Python AI/ML course?

To get the most out of this intensive workshop, participants should have a foundational understanding of Python programming, including familiarity with variables, data types, control flow (loops, conditionals), and functions. While basic, this prior Python knowledge will allow you to keep pace with the rapid introduction to AI/ML concepts and practical coding exercises.

Q: Given the concise 2-hour duration, what specific practical skills will I gain by the end of this AI/ML course?

Despite its brevity, this course is highly practical. You will learn to use NumPy and Pandas for basic data handling, build and train simple regression and classification models using Scikit-learn, and understand the fundamental steps of creating a basic neural network with Keras. This will equip you with a hands-on 'first touch' for building AI/ML models in Python, serving as a launchpad for more complex projects.

Q: How does this specific 'Python AI/ML Course' prepare me for potential career transitions or enhance my current role?

This course provides a crucial stepping stone for Python developers aiming to transition into roles like Junior Data Analyst or Entry-level Machine Learning Support. By demystifying core AI/ML concepts and providing practical exposure to key libraries, it enables you to speak the language of data science, understand ML workflows, and contribute to AI-driven projects, significantly boosting your profile in a tech landscape increasingly reliant on intelligent systems. It offers a strong foundational understanding to build upon for future specialization.

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