



PYTHON TRAINING

Python Artificial Intelligence Course

Master Python for AI, building machine learning models and deep learning solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

Embark on an accelerated journey into the fascinating world of Artificial Intelligence with our "Python Artificial Intelligence Course". This intensive 2-hour program is expertly designed for intermediate Python developers eager to pivot into AI. You will gain a solid understanding of fundamental AI concepts, including core machine learning algorithms and an introductory grasp of deep learning principles, all while leveraging the power of Python and its robust ecosystem of libraries such as NumPy, Pandas, Scikit-learn, and Keras.

This course is meticulously crafted to bridge the gap between basic Python programming and practical AI application. By the end, you'll not only comprehend how AI models work but also possess the hands-on skills to set up your AI development environment, preprocess data, build and evaluate simple predictive models, and understand the basic architecture of neural networks. These foundational skills are crucial for anyone looking to solve real-world problems using intelligent systems, enhancing your professional portfolio and opening doors to exciting career opportunities in the rapidly expanding field of artificial intelligence.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Python & AI Foundation

- Setting up the AI environment (Anaconda, Jupyter Notebooks)
- Review of Python data structures for data science
- Introduction to NumPy for numerical operations
- Introduction to Pandas for data manipulation

02 Module 2: Core Machine Learning Concepts

- Understanding supervised vs. unsupervised learning paradigms
- Basic regression models (e.g., Linear Regression with Scikit-learn)
- Basic classification models (e.g., Logistic Regression with Scikit-learn)
- Model training and prediction fundamentals

03 Module 3: Introduction to Neural Networks

- Fundamentals of Artificial Neural Networks (ANNs)
- Introduction to Deep Learning frameworks (Keras/TensorFlow basics)
- Building a simple neural network for classification
- Evaluating neural network performance metrics

04 Module 4: Practical AI Application & Next Steps

- Brief overview of data preprocessing techniques (scaling, encoding)
- Simple project: Applying a learned model to a small dataset
- Understanding model evaluation metrics (accuracy, precision, recall)
- Pathways for advanced AI learning and career progression

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Machine Learning Engineer**
- > **AI/Data Science Assistant**
- > **Python Automation Specialist (with AI focus)**

FREQUENTLY ASKED QUESTIONS

Q: Which specific Python libraries and tools will I gain proficiency in during this course?

This course provides hands-on experience with foundational AI libraries including NumPy and Pandas for efficient data handling, Scikit-learn for implementing various machine learning algorithms like regression and classification, and an introduction to Keras (built on TensorFlow) for building basic neural networks. You will also learn to set up and navigate the Anaconda environment and Jupyter notebooks effectively for your AI projects.

Q: What prior programming knowledge or experience is required to successfully complete this Intermediate Python Artificial Intelligence course?

To thrive in this intermediate course, participants should have a foundational understanding of Python programming concepts, including variables, data types, control structures (loops, conditionals), functions, and ideally, some experience working with data in Python. While prior AI experience isn't necessary, a basic grasp of data manipulation concepts will be beneficial, as the course quickly progresses into AI-specific applications.

Q: How will this 2-hour course enhance my ability to contribute to AI-driven projects or roles immediately after completion?

This intensive 2-hour course is designed to equip you with the essential building blocks for AI. You'll learn to set up a Python AI environment, understand core ML algorithms, get an initial exposure to deep learning, and practice basic model building and evaluation. This foundational skill set will enable you to understand AI project workflows, contribute effectively as a team member in AI/ML initiatives, and provide a strong base for further specialized learning, accelerating your career in roles like AI/Data Science Assistant or Junior ML Engineer.

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.

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