



PYTHON TRAINING

Python For Machine Learning In A Day Course

Learn Python essentials for machine learning in one day. Master data analysis, model building, and prediction techniques.

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 world of Machine Learning with Python in this intensive 2-hour course designed for intermediate Python enthusiasts. This "Python For Machine Learning In A Day Course" by Computer Pride provides a robust, hands-on introduction to leveraging Python's powerful libraries for fundamental machine learning tasks. You'll swiftly grasp the core concepts of data preparation, model training, and basic evaluation, setting a solid foundation for more advanced studies.

This course demystifies key technologies like NumPy for numerical operations, Pandas for data manipulation and analysis, and Scikit-learn, the industry-standard library for machine learning algorithms. Through practical examples and concise explanations, you'll learn to implement essential supervised and unsupervised learning models, giving you a tangible skill set to apply immediately. The focus is on practical application, ensuring you not only understand the theory but can also confidently write code to solve real-world data challenges.

Professionally, this course serves as an excellent accelerator for individuals looking to quickly add practical machine learning capabilities to their existing data analysis or programming skill set. It empowers you to interpret data more deeply, make data-driven predictions, and opens doors to entry-level roles or expands responsibilities within your current position, making you a more valuable asset in today's data-centric economy. This condensed format is perfect for busy professionals eager to upscale rapidly.

Duration	2 hours
Level	Intermediate
Vendor	Python

COURSE CURRICULUM

01 Module 1: Machine Learning & Python Fundamentals

- What is Machine Learning? (Brief Overview)
- Setting Up Your Python ML Environment (Anaconda/Jupyter Notebook)
- Introduction to NumPy for Numerical Operations
- Introduction to Pandas for Data Manipulation

02 Module 2: Data Preparation for Machine Learning

- Loading and Inspecting Datasets
- Handling Missing Values (Basic Strategies)
- Feature Scaling and Encoding Concepts
- Splitting Data into Training and Testing Sets

03 Module 3: Building Your First Supervised Learning Model

- Introduction to Scikit-learn Library
- Understanding Linear Regression (Concept & Implementation)
- Understanding Logistic Regression (Concept & Implementation)
- Basic Model Evaluation Metrics (Accuracy, R-squared)

04 Module 4: Exploring Unsupervised Learning & Next Steps

- Introduction to Unsupervised Learning (Clustering)
- K-Means Clustering (Concept & Basic Implementation)

- Brief Discussion: Other ML Algorithms & Resources
- Best Practices for Continuing Your ML Journey

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Entry-Level Data Analyst with Predictive Skills**
- > **Business Intelligence Developer (incorporating basic ML insights)**
- > **Data Science Intern (equipped with foundational Python ML implementation)**

FREQUENTLY ASKED QUESTIONS

Q: What are the essential prerequisites for enrolling in the 'Python For Machine Learning In A Day' course?

This course is designed for intermediate Python users. You should have a solid understanding of fundamental Python concepts including variables, data types, control flow (loops, conditionals), functions, and basic data structures (lists, dictionaries). Familiarity with basic mathematical concepts like algebra and statistics will also be beneficial, though not strictly required, as the course focuses on practical application.

Q: How will this intensive 2-hour course enhance my immediate professional capabilities or contribute to my current projects?

Upon completing this course, you will be able to perform essential data preparation tasks, implement fundamental supervised learning algorithms (like Linear and Logistic Regression), and grasp basic model evaluation using Python's Scikit-learn library. This practical skill set allows you to build simple predictive models, enhance data analysis reports, and confidently contribute to initial phases of machine learning projects within your current role or for personal initiatives.

Q: Is this 'Python For Machine Learning In A Day' course sufficient for a career transition into a dedicated Machine Learning Engineer role?

While this course provides a strong and practical foundation in Python for Machine Learning, its 2-hour condensed format serves as an excellent kick-off point rather than a complete career transition program. It equips you with crucial entry-level skills and confidence. To transition into a full-time Machine Learning Engineer role, you would need to pursue more in-depth studies, including advanced algorithms, deep learning, MLOps, and extensive project work beyond the scope of this intensive introductory course.

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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