Python for Machine Learning

Category: Software Development & Programming | **Vendor:** Various

Duration: 18.00 hours (3 days) **14.6 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Unlock the power of machine learning and transform your Python skills into real-world impact. With over 91% of businesses investing in AI initiatives, the ability to apply machine learning is one of the most in-demand tech skills today. This hands-on course will guide you through building powerful algorithms using Python’s Scikit-learn library—equipping you to predict classifications, continuous values, and more. Whether you're refining your models with Lasso and Ridge regression or deploying interactive APIs, this course gives you the tools and techniques to apply machine learning confidently in your day-to-day work.

About This Course

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Who Should Attend

This course is ideal for experienced Python developers who are ready to expand their skillset into machine learning. If you want to build a modern portfolio of machine learning projects, understand both supervised and unsupervised learning algorithms, and learn practical deployment methods, this course is for you.

Prerequisites & Entry Requirements

General Prerequisites:

To be successful in this course, learners should have the following: Intermediate Python skills and knowledge

- Level of knowledge and experience gained from Python for Data Science

Learning Outcomes

Upon successful completion of this course, participants will be able to:

In this course, you'll gain practical experience applying machine learning algorithms using Python. You'll learn how to process and analyze data using NumPy and Pandas, create both classification and regression models with Scikit-learn, and apply feature engineering techniques to real-world datasets. You'll also explore key concepts such as supervised vs unsupervised learning, model evaluation, and end-to-end model deployment as APIs.

Detailed Course Outline

- Python
- Jupyter notebooks
- Numpy
- Pandas
- Matplotlib
- Machine Learning concepts
- Supervised vs Unsupervised Learning
- Types of Machine Learning – Classification vs Regression
- Evaluation
- Machine Learning Methods – All in Theory and Practice
- Linear Regression
- Logistic Regression
- K Nearest Neighbors
- Support Vector Machine
- Decision Trees
- Unsupervised Learning Methods
- Feature Engineering and Data Preparation

Upcoming Schedule

Available training dates for Python for Machine Learning:

Start Date	End Date	Location	Delivery	Price
05 Nov 2026	06 Nov 2026	Online	Virtual	€1,195.00

Frequently Asked Questions

Q: What delivery options are available for Python for Machine Learning?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Python for Machine Learning course provides up to 14.6 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Python for Machine Learning training?

The training takes place over 3 day(s), with each day lasting approximately 18.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Python for Machine Learning?

Yes, we provide corporate training, dedicated training, and closed classes for Python for Machine Learning. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Python for Machine Learning?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Python for Machine Learning training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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