



[www.uplatz.com](http://www.uplatz.com)

Leading Marketplace for IT and Certification Courses

[info@uplatz.com](mailto:info@uplatz.com)

+44 7836 212635



# MACHINE LEARNING USING PYTHON

◆ 1:1 Instructor-led Online Training ◆



[www.uplatz.com](http://www.uplatz.com)



+44 7836212635



[info@uplatz.com](mailto:info@uplatz.com)

## COURSE DETAILS & CURRICULUM

### Module 1 - Machine Learning vs Statistical Modeling & Supervised vs Unsupervised Learning

- Machine Learning Languages, Types, and Examples
- Machine Learning vs Statistical Modelling
- Supervised vs Unsupervised Learning
- Supervised Learning Classification
- Unsupervised Learning

### Module 2 - Supervised Learning I

- K-Nearest Neighbors
- Decision Trees



[www.uplatz.com](http://www.uplatz.com)

Leading Marketplace for IT and Certification Courses

[info@uplatz.com](mailto:info@uplatz.com)

[+44 7836 212635](tel:+447836212635)

- Random Forests
- Reliability of Random Forests
- Advantages & Disadvantages of Decision Trees

### **Module 3 - Supervised Learning II**

- Regression Algorithms
- Model Evaluation
- Model Evaluation: Overfitting & Underfitting
- Understanding Different Evaluation Models

### **Module 4 - Unsupervised Learning**

- K-Means Clustering plus Advantages & Disadvantages
- Hierarchical Clustering plus Advantages & Disadvantages
- Measuring the Distances Between Clusters - Single Linkage Clustering
- Measuring the Distances Between Clusters - Algorithms for Hierarchy Clustering
- Density-Based Clustering

### **Module 5 - Dimensionality Reduction & Collaborative Filtering**

- Dimensionality Reduction: Feature Extraction & Selection
- Collaborative Filtering & Its Challenges