



Machine Learning with Python

Live Online Training From Experts



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Spark Databox is known to be a pre-eminent platform for software certificate training and career development. Through our mission, we are a pioneer or positive change, improve productivity, increase the workforce, and creating a career opportunity for everyone. We are India's #1 software training institute. Apart from receiving excellent live training you will also receive free self-paced video courses, training materials, placement support, mock interviews and many more.

Program Key Features

- ❖ 100% Practical training
 - ❖ Experienced Trainers
 - ❖ 100% Placement assistance
 - ❖ Small batch size
 - ❖ Customized training content
- ❖ Real-time project training
 - ❖ Fully equipped cloud lab
 - ❖ 100% Customer support
 - ❖ 100% Money back guarantee

About Course:

The best **Online Machine Learning with Python course** is here. By taking this course, you will learn the overall concepts of Machine Language and Python discover how the statistical model correlates with Machine Learning and knowledge to develop algorithms with practical experience and training. To know right from the basic to advanced strategies of this domain, Spark Databox comprehensive training course will be the best one for you.

Contents

Section 1: Introduction to Machine Learning

- Welcome
- Introduction to Machine Learning
- Python for Machine Learning
- Supervised vs Unsupervised

Section 2: python 3.0 (Crash Course)

- Spark Databox's Master Python crash course - Self-paced vide training.

Section 3: Regression

- Scikit-Learn
- EDA
- Correlation Analysis and Feature Selection
- Correlation Analysis and Feature Selection
- Linear Regression with Scikit-Learn
- Five Steps Machine Learning Process
- Robust Regression
- Evaluate Regression Model Performance
- Multiple Regression 1
- Multiple Regression 2
- Regularized Regression
- Polynomial Regression
- Dealing with Non-linear Relationships
- Feature Importance
- Data Preprocessing
- Variance-Bias Trade-Off
- Learning Curve
- Cross Validation
- CV Illustration

Section 4: Classification

- Logistic Regression
- Introduction to Classification
- Understanding MNIST
- SGD
- Performance Measure and Stratified k-Fold
- Confusion Matrix
- Precision
- Recall
- f_1
- Precision Recall Tradeoff
- Altering the Precision Recall Tradeoff
- ROC

Section 5: Support Vector Machine (SVM)

- Support Vector Machine (SVM) Concepts
- Linear SVM Classification
- Polynomial Kernel
- Radial Basis Function
- Support Vector Regression

Section 6: Tree

- Introduction to Decision Tree
- Training and Visualizing a Decision Tree
- Visualizing Boundary
- Tree Regression, Regularization and Over Fitting
- End to End Modeling
- Project HR
- Project HR with Google Colab

Section 7: Ensemble Machine Learning

- Ensemble Learning Methods Introduction
- Bagging
- Random Forests and Extra-Trees
- AdaBoost
- Gradient Boosting Machine
- XGBoost Installation
- XGBoost
- Project HR - Human Resources Analytics
- Ensemble of Ensembles Part 1
- Ensemble of ensembles Part 2

Section 8: Clustering

- Intro to Clustering
- Intro to k-Means
- More on k-Means
- Intro to Hierarchical Clustering
- More on Hierarchical Clustering
- DBSCAN

Section 9: k-Nearest Neighbours (kNN)

- kNN Introduction
- Project Cancer Detection

Section 10: Dimensional Reduction

- Dimensionality Reduction Concept
- PCA Introduction
- Project Wine
- Kernel PCA
- Kernel PCA Demo
- LDA vs PCA
- Project Abalone

Section 11: Real-time project

- Machine Learning With Python project environment setup
- Real-time Machine Learning With Python project
- Project demonstration
- Expert evaluation and feedback

Section 12: You made it!!

- Spark Databox Machine Learning With Python certification
- Interview preparation
- Mock interviews
- Resume preparation
- Knowledge sharing with industry experts
- Counselling to guide you to a right path in Machine Learning With Python career

You made it!!

Post completion of Machine Learning with Python Online Course, a proper orientation for placements is done. With this training from experienced trainers, as professionals, you will be equipped with different proficiencies. This is a chance to open up and widen your prospects.

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