



Practical Machine Learning for Cloudera Platform

Training Calendar

Date	Training Time	Location
16 September 2019	1 Day	Bilginç IT Academy
07 October 2019	1 Day	Bilginç IT Academy

Training Details

Training Time	:	1 Day
Capacity	:	12
Prerequisites	:	There are no prerequisites for this course.

About Training

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Cloudera University's one-day Introduction to Machine Learning with Spark ML and MLlib will teach you the key language concepts to machine learning, Spark MLlib, and Spark ML. The course includes coverage of collaborative filtering, clustering, classification, algorithms, and data volume.

What You'll Learn

Through instructor-led discussion, as well as hands-on exercises, participants will learn topics including:

- Data types, statistics support, feature extraction, transforming vectors, using the StandardScaler class
- An overview of dimensionality reduction

- Machine learning models, regression, linear regression support, and regularization.
- Finally, the course discusses machine learning with Spark ML topics such as using data frames, transformers and estimators, an introduction to pipelines, using pipelines to generate models, and regularization.

Who Should Attend

This course is intended for software engineers who have basic Linux experience in addition to experience with either the Scala or Python programming languages (code examples and exercises are presented in both languages, so students can choose whichever language they prefer).

Outline

1. Machine Learning Overview

- Introduction
- Collaborative Filtering
- Clustering
- Classification
- Relationship of Algorithms and Data Volume

2. Machine Learning with Spark MLlib

- Introduction
- Data Types
- Basic Statistics
- Feature Extraction
- Dimensionality Reduction
- Models
- Regression

3. Machine Learning with Spark ML

- Overview of Spark ML
- DataFrames
- Transformers and Estimators
- Pipelines
- Decision Tree Classifiers
- k-Means Clustering