04/19/2020

Jans Johnson

has successfully completed

Machine Learning with Python

an online non-credit course authorized by IBM and offered through Coursera

COURSE CERTIFICATE

Saeed Aghabozorgi
Sr. Data Scientist
IBM

Joseph Santarcangelo
Senior Data Scientist
IBM

Verify at coursera.org/verify/KB5ZJU4DFMJQ

Coursera has confirmed the identity of this individual and their participation in the course.

WEEK

1

1 hour to complete

Introduction to Machine Learning

In this week, you will learn about applications of Machine Learning in different fields such as health care, banking, telecommunication, and so on. You'll get a general overview of Machine Learning topics such as supervised vs unsupervised learning, and the usage of each algorithm. Also, you understand the advantage of using Python libraries for implementing Machine Learning models.

4 videos (Total 25 min) SEE ALL

WEEK

2

5 hours to complete

Regression

In this week, you will get a brief intro to regression. You learn about Linear, Non-linear, Simple and Multiple regression, and their applications. You apply all these methods on two different datasets, in the lab part. Also, you learn how to evaluate your regression model, and calculate its accuracy.

6 videos (Total 51 min) SEE ALL

WEEK

3

5 hours to complete

Classification

In this week, you will learn about classification technique. You practice with different classification algorithms, such as KNN, Decision Trees, Logistic Regression and SVM. Also, you learn about pros and cons of each method, and different classification accuracy metrics.

9 videos (Total 82 min) SEE ALL

WEEK

4

4 hours to complete

Clustering

In this section, you will learn about different clustering approaches. You learn how to use clustering for customer segmentation, grouping same vehicles, and also clustering of weather stations. You understand 3 main types of clustering, including Partitioned-based Clustering, Hierarchical Clustering, and Density-based Clustering.

6 videos (Total 41 min) SEE ALL

WEEK

5

3 hours to complete

Recommender Systems

In this module, you will learn about recommender systems. First, you will get introduced with main idea behind recommendation engines, then you understand two main types of recommendation engines, namely, content-based and collaborative filtering.

3 videos (Total 17 min) SEE ALL

WEEK

6

4 hours to complete

Final Project

In this module, you will do a project based of what you have learned so far. You will submit a report of your project for peer evaluation.

2 videos (Total 20 min), 2 readings, 1 quiz SEE ALL