Welcome to ineuron.ai

Machine Learning and Data Science Bootcamp

Description:

This is a data science detailed course where you will learn all the stack required to work in data science, data analytics and big data industry.

Start Date:

Doubt Clear Time:

Course Time:

Features:

Course material

Course resources

On demand recorded videos

Practical exercises

Quizzes

Assignments

Course completion certificate

What we learn:

Getting started with Machine Learning

Installation for Windows and MAC

Python Quick Refresher

Mastering NUMPY Library

Mastering PANDAS Library

Mastering MATPLOTLIB Library

Mastering SEABORN Library

Multi index Matrix

Portfolio Project - Classic 911 analysis

Data preprocessing for Machine Learning

Supervised, Unsupervised and Reinforcement Learning

Linear regression algorithm

Portfolio Project - Housing dataset analysis

Decision Tree Regression Algorithm

K-Nearest Neighbors Algorithm

Support Vector Machine Classifier

Naïve Bayes Algorithm

Neural Network and Deep Learning

Requirements:

System with Internet Connection

Interest to learn

Dedication

Instructor:

Name:

Hitesh Choudhary

Description:

I like to make videos related to code and tech in my free time. I also lead a few tech teams in startups, help in hiring talent for companies. I am also on a part time traveller, with 31 countries checked off so far!

>Getting started with Machine Learning:

>>Why Machine Learning and How it works

>>Where we are using Machine Learning

>>What is machine learning

>Installation for Windows and MAC:

>>what you need - Windows

>>Installing python Anaconda and setup - Windows

>>Let 27s collect our tools first- MAC

>>Installing python and anaconda - MAC

>Python Quick Refresher:

>>Python datatypes

>>Making decisions in python

>>Loops in python

>>Practice Python - 1 - Average list

>>Practice Python - 2 - Palindrome

>>Practice Python - 3 - Identity matrix

>>Practice Python - 4 - Multiplication table

>>Practice Python - 5 - Second largest

>>Practice Python - 6 - merging lists

>Mastering NUMPY Library:

>>Anaconda and python notebooks

>>What is numpy

>>Basics of numpy - generating matrix

>>Numpy - matrix operations

>>Numpy file paths and copy issues

>>Numpy 2D selection

>>Numpy conditional returns

>>Numpy Mean Deviation 2C dot and cross products

>Mastering PANDAS Library:

>>Introduction to PANDAS library

>>Handle series with Pandas

>>DataFrames in Pandas

>>Subselection using pandas

>>Conditional selection in PANDAS

>>Multiple conditions in PANDAS

>>basics of datacleanup

>>Merging the data and operations

>>Reading and writing files

>Mastering MATPLOTLIB Library:

>>Introduction to MATPLOTLIB

>>Our first linear graph using MATPLOTLIB

>>plotting histograms in matplotlib

>>plotting ads data with stackplot

>>Pie chart for ads

>Mastering SEABORN Library:

>>Introduction to SEABORN

>>Plotting graphs with SEABORN

>>Factor plot and Fat consumption data

>>Swarmplot with IRIS dataset

>Multi index Matrix:

>>Multilevel indexing

>Portfolio Project - Classic 911 analysis:

>>Setup of resource files and python notebook

>>Loading dataset and verifying it

>>Answering top 3 questions in dataset

>>Python knowledge with Pandas

>>working with data time of python

>>Group the data by Days and months

>Data preprocessing for Machine Learning:

>>Data preprocessing basics for Machine Learning

>>importing dataset and libraries

>>Separating dependent and independent matrixes

>>Imputation of missing values

>>Dummy matrix and one hot encoder

>>Preparing test and training dataset

>>Feature scaling - Might be needed

>Supervised, Unsupervised and Reinforcement Learning:

>>Supervised, Unsupervised and Reinforcement Learning

>Linear regression algorithm:

>>Linear Regression theory

>>Importing libraries and dataset

>>creating test and training data sets

>>Training the machine for prediction

>>plotting graphs on training and predictions

>Portfolio Project - Housing dataset analysis:

>>Housing dataset analysis using Linear Regression

>Decision Tree Regression Algorithm:

>>How decision tree Algorithm works

>>Loading our dataset for Decision tree

>>Predicting values using Decision Tree algorithm

>K-Nearest Neighbors Algorithm:

>>K-Nearest Neighbors theory

>>loading data and libraries

>>splitting data into training and test sets

>>Applying KNN confusion matrix and plotting

>Support Vector Machine Classifier:

>>Theory of Support Vector Machine SVM

>>Loading libraries and dataset

>>Test and training data with feature scaling

>>Confusion matrix and stackoverflow debugging

>Naïve Bayes Algorithm:

>>What is Bayes theorem

>>Naive bayes and scikit docs for it

>>importing dataset for NB

>>data preprocessing for NB

>>prediction and confusion matrix for NB

>Neural Network and Deep Learning:

>>Neural Network and Deep learning

>>Installing tensorflow