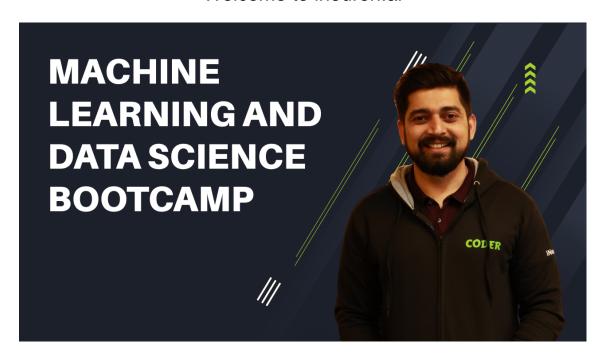
Welcome to ineuron.ai



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