

DS+ML+AI

Duration: 60 Hours

0731-4069788

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Data Science Overview

- ❖ Introduction to Data Science, Component of Data Science
- ❖ Type of Data Science
- ❖ Numpy, scipy, pandas, scikitlearn
- ❖ Accessing, Importing and exporting data using python modules
- ❖ Data manipulation (Cleansing, Sorting, Filtering, merging, normalizing, Formatting)
- ❖ Data Analysis (Descriptive statistics)
- ❖ Python Matplotlib library in details

Machine Learning

- ❖ Introduction to ML, Component of ML
- ❖ Data Loading for ML
- ❖ Methods of ML (Supervised, Unsupervised, Semi-supervised, Reinforcement)
- ❖ Data Features Selection
- ❖ Classification (Logistic Regression, SVM, Decision Tree, Native Bayes, Random Forest)
- ❖ Regression (Linear)
- ❖ Clustering (K-Means, Mean shift, Hierarchical Clustering)
- ❖ KNN Algorithm
- ❖ Data Visualization with ML
- ❖ Application of ML

AI

- ❖ Introduction to AI, How to use AI using Python and ML
- ❖ What is NLP (Natural Language Processing)
- ❖ Work with NLTK Package
- ❖ Analyzing Time Series Data
- ❖ Speech Recognition
- ❖ Heuristic Search
- ❖ What is ANN (Artificial Neural Networks)
- ❖ Reinforcement Learning
- ❖ Generic Algorithm
- ❖ Computer Vision
- ❖ Deep Learning

