

Data Science & Machine Learning

Duration: - 35 Hrs

Cost Per Head: ₹4,500/-

Introduction to Data Science, Analytics Methodology, Data Science Life Cycle. Basic Statistics, Measures of Central Tendencies, Measure of Dispersion, Outlier Treatment, Data visualization. Probability Theory, Probability Distribution – Binomial distribution, Normal distribution, Skewness & Kurtosis-Importance of Python programming -Basics of Python -Continuation - Basics of Python Pandas, Numpy basics -Exploratory Data Analysis (EDA) -Data Visualization, using Matplotlib -Data Visualization using Seaborn -Hypothesis testing - Confidence Interval, Test of Significance – Hypothesis test, Correlation. -Evaluation Metrics Simple & Multiple Linear Regression -Logistic Regression -KNN, Euclidean distance, Manhattan Distance, Naïve Bayes -Decision Tree

SVM :Ensemble methods - Random Forest (Bagging) -Ensemble methods – Gradient Boosting (Boosting) - Clustering - K-means and Hierarchical -Dimension Reduction Text mining, Word Cloud -Sentimental Analysis –NLTK -Imbalance datasets – Under Sampling -Imbalance datasets – Over Sampling -Introduction to Artificial Neural Networks -CNN (convolutional neural network) -Image classification using CNN - RNN (Recurrent neural networks) -Sentiment Analysis using LSTM -Introduction to Open CV -Continuation of Open CV -OCR: using Open CV and tesseract