

DATA SCIENCE COURSE

65 HOURS

- 1) **Python :**
 - a. Basic : Installation, OOPS concepts, Classes, methods, objects, Sequential Storage
- 2) **Statistics**
 - a. Statistical Terminology
 - b. Descriptive Statistics
 - c. Inferential Statistics
 - d. Scales of measurement
 - e. Sampling Techniques
 - f. Hypothesis Testing
 - g. Distributions
 - h. Probability
 - i. Used to understand Data in front of you
- 3) **Predictive Analytics**
 - a. Linear Regression – Regression
 - b. Logistic Regression – classification
- 4) **Forecasting Analytics**
 - a. ARIMA
 - b. Exponential Smoothing
- 5) **Machine Learning**
 - Supervised:
 - Classification:
 - SVM
 - Decision trees
 - Random forest
 - Naive Bayes
 - KNN
 - Ensemble Learning
 - Unsupervised:
 - Segmentation (K-Means Clustering)
 - Association Rule Mining (Apriori).

- Principal Component Analysis

6) Deep Learning

- Mathematics : Algebra and calculus
- Neural Networks
- Tensor Flow : Frame work by GOOGLE brain team works over deep learning

7) Projects:

- Facial Recognition
- Facial Detection
- Object Detection
- Handwriting Recognition
- Sales Prediction
- Stock Market Prediction
- Cancer Prediction etc.

