



## ByteStorm Techno Solutions Pvt. Ltd.

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### Shining Bits Labs

Internship Programme

### Data Science in Industry (Online) An Advanced Course

**Pre-requisites : Basics of Python, Basics of R, Basics of Application programming interface, Basics of Probability theory.**

#### 1. Introduction to Python and R for Data Science

- a. Numpy
- b. Pandas
- c. Skit Learn
- d. Matplot Lib
- e. R for ML

#### 2. Introduction to Data Science Life Cycle and Machine Learning

- a. Data Mining and Predictive analytics
  - i. What is Data Mining?
  - ii. The Cross Industry Standard Process of Data Mining – CRISP DM
- b. Data Pre-processing
- c. Exploratory Data Analysis
- d. Dimension Reduction Methods, Univariate and Multivariate Statistical Analysis
- e. Preparing Data for Modelling
- f. Introduction to ML Algorithms
  - i. Simple Linear Regression
  - ii. Multiple Linear Regression
  - iii. Logistic Regression
  - iv. K – Nearest Neighbour
  - v. Decision Trees
  - vi. K – Mean Clustering
  - vii. Association Rules

#### 3. Deep Learning and Natural Language Processing

- a. Introduction to Deep Learning
- b. Model Validation and Hyper parameter tuning
- c. Introduction to NLP
- d. Implementation of Deep learning model
  - i. Recognition of hand written numbers
  - ii. Sentiment Scoring for E – commerce Customer Products

#### 4. Analytics in Industry

- a. Introduction to Dashboards
- b. Introduction to Flask, Docker, Amazon Web Services and Google Cloud Platform
- c. Deployment of Machine Learning Models using Flask
- d. Dockerizing Machine Learning Models and Dashboards