

Summer Training 2020

Daily Log

Submitted by:

Bhartendu Dubey (9917103102)

Under the supervision of:

Ms. Ambalika Sarkar



Department of CSE/IT

Jaypee Institute of Information Technology University, Noida

May 2020

DATE: 01/05/2020

- What is Data Science & Data Analytics?
- Exploring the need of Data Analytics.
- Understanding scope of Big Data Analytics.

DATE: 02/05/2020

- Understanding the R Environment
- Installation of R
- Installation of R-Studio.

DATE: 03/05/2020

- Basic Data Types of R.
- Variables
- Practicing Some simple examples on iris dataset.

DATE: 04/05/2020

- Vectors
- Matrices & Arrays
- 3D-Arrays
- List

DATE: 05/05/2020

- Data Frames in R.
- Data Sets in R.
- Importing the Data in R-Studio.

DATE: 06/05/2020

- Exploring R Packages
- Understanding concept of Session Management & Realization

DATE: 07/05/2020

- Dealing with Expressions & Objects.
- Understanding Factors & their role in handling categorical data.

DATE: 08/05/2020

- Working of Functions in R
- Logical Comparisons

DATE: 09/05/2020

- Conditional Selection (Sub-setting)
- Modifying Objects

DATE: 10/05/2020

- Indexing by a vector of positive Integer.
- Indexing by a vector of negative Integer.
- Indexing by a logical vector.
- Indexing by a vector of names.

DATE: 11/05/2020

- Loops (if, ifelse, switch, for, while)
- Loop Control (Break & Next)

DATE: 12/05/2020

- Functions & Data Frames
- Combining Data Frames (cbind)

DATE: 13/05/2020

- Understanding Data Manipulation
- Implementation of Data Manipulation with dplyr

DATE: 14/05/2020

- Understanding Difference of Qualitative and Quantitative Data
- Understanding the need of Qualitative and Quantitative Data

DATE: 15/05/2020

- Data Visualization - Continuous One Variable
- Data Visualization - Discrete One Variable

DATE: 16/05/2020

- Data Visualisation - Continuous X and Y

DATE: 16/05/2020

- Plotting of Histograms on Iris dataset.
- Plotting of Density plots on Iris dataset.
- Plotting of Pie chart on Iris dataset.
- Plotting of Bar chart on Iris dataset.

DATE: 17/05/2020

- Plotting of Box Plot on Iris dataset.
- Plotting of Scatter Plot on Iris dataset.
- Plotting of Scatter Plot with jitter.
- Plotting a matrix of Scatter Plots.

DATE: 18/05/2020

- Plotting of Heat Maps on Iris dataset.
- Plotting of Level Plot on Iris dataset.
- Plotting of Contours.

DATE: 19/05/2020

- Plotting 3D-surface diagrams.
- Plotting parallel coordinates.
- Simple Descriptive Statistics (mean, median, Inter quartile range)
- Understanding Covariance & Correlation.

DATE: 20/05/2020

- Understanding Data Mining, it's need & data warehousing
- R Packages and Functions for Data Mining

DATE: 21/05/2020

- Implementing Clustering (K-Means Clustering) in R.