

Experiment 1

Aim: Getting introduced to data analytics libraries in Python & R.

Theory:-

- Top 5 data analytics library.

1) Numpy:-

Python provides Numpy is a python library that provides a multidimensional array object.

2) Pandas:-

Pandas is a python package providing fast, flexible and expensive data.

3) Scikit learn:-

Simple and efficient tools for prediction analysis is provided by scikit learn.

4) Keras:

Keras is a popular library that is used extensively for deep learning & NN.

5) Beautiful Soup:-

Beautiful Soup is a python package for parsing HTML & XML documents.

• Top 5 data analytics libraries in R.

1) dplyr :-

It is used to manipulate, clean & summarize unstructured data.

2) ggplot2 :-

Grammar of graphics, a coherent system for describing & building graphs

3) Lubridate :-

This library makes it easy to work with date & time

4) mlr :-

It is a framework for classification, regression, and clustering.

5) readr :-

It is designed for efficient reading of rectangular data, providing functions for fast and convenient data import from various file formats.

Conclusion:- Thus we have been successfully introduced to various data analytics libraries in Python and R programming languages.