Assignment DA-1

Title: Data visualisation and analysis

notion stakement

Downtood the ivis flower datuset or any other dataset into datafrance. Use pythen to perform the following

1) How many features are there and their types?

- 2) Compute and display summery statistic for each feature in dataset
- 3) Data vigualisation Create a histogram for each feature in dataset to illustrate feature distribution

 Plat histogram. Create box plat for feature in clataset. All barplot should be combined in single plat. Compare distributions and identify outliers.

Objectives

To understand baries of data visualisation and description techniques

To main hands an experience of what libraries such as using

To gain hands on experience of using libraries such as numpy, pandas, metalotlib and seaborn

Outcomes

To be able to implement and execute script which allows data visualisation thereby enabling in to gain better understanding of dataset

software requirements
Tupyter notebook, Aythons, associated fibraries and packages

Theory mobiled concepts

Data Analysis

It is a process of inspecting, cleaning, trumforming and
redding data with aims to discover useful information and
patterns in data

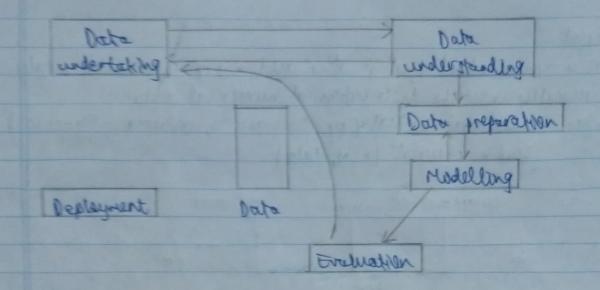
The purpose is to expect useful information

Types of data analysis

- Text analysis / Late mining

 It is a method to discours a pattern in large data using data assist or data mining tools.
- 2. Statistical analysis

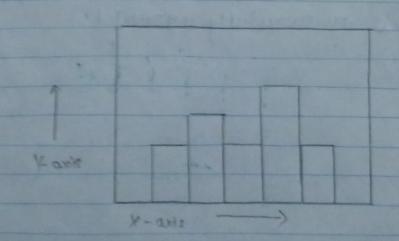
 Includes collection, analysis of data
 - i) Interestial analysis analyses samples from complete data
 - ii) Descriptive analysis analyses complete data or sample of surmanised data
- 3. Predictive analysis
- 4. Descriptive analysis
- 5. Diagnostic analysis



Data visualization of information and data. By virtual elements like charts, graphs, and maps provided way

Histogram is an approximate representation of distribution of named data

- Hight of hours in histogram show observed relie
- Uses vertical column to display data
- Ander Upravy histogram draw function groups values a fall

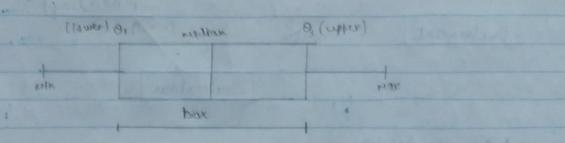


Boxplot

te is a type of chart that is offen used in exploring data analysis to visually show the distribution of numerical data

Syntax: dataframe boxplot (by = " n - axis", column = "y-axis")

seaborn. boxplot (n, y, date)



Monthe

1. Import litraries pandas, matplotlib, seatorn

2 load dataset into data frame

- 3. Use into further to get number of feature and datatypes
- 4. Use describe function to get statistical rule of dataset
- 5. Use dataframe high () to plot mistogram for each feature

Conclusion
Thus the tout of feature description and data visualisation on france dataset was successfully Englishmented