



Experiment No. - 1

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Branch: CSE **Semester:** 5th **Semester:** 5th **Section/Group:** 20BCS_WM-703 / B **Date of Performance:** 16th Aug, 2022

Subject Name: Machine Learning Lab Subject Code: 20CSP-317

- 1.1 Aim/Overview of the practical: Exploratory Data Analysis on any data set.
- 1.2. Task to be done: Perform EDA on any given data set.
- 1.3 Apparatus/Simulator used:
 - Windows 7 or above
 - •Browser (Google Chrome, Mozilla Firefox, Microsoft Edge, etc.)
 - •Google Colab Notebook





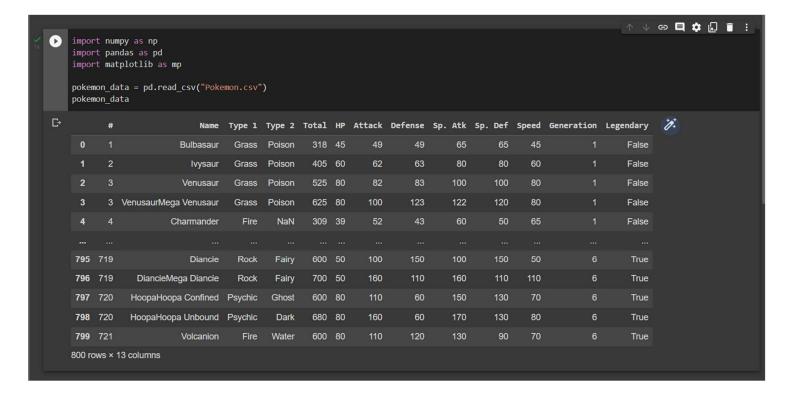


1.4. Code:

import numpy as np import pandas as pd import matplotlib as mp

pokemon_data = pd.read_csv("Pokemon.csv")

a. pokemon_data

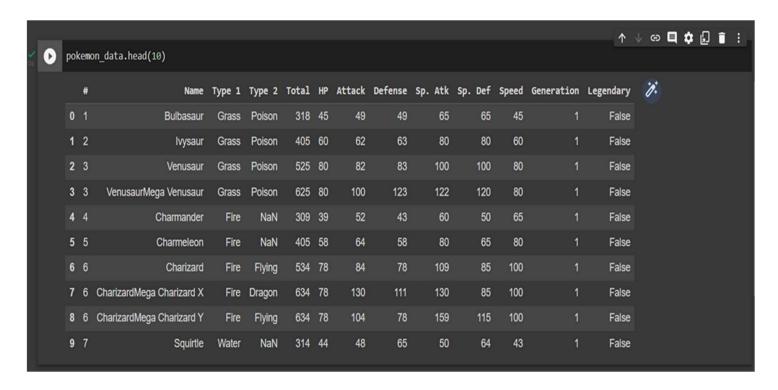








b. pokemon_data.head(10)







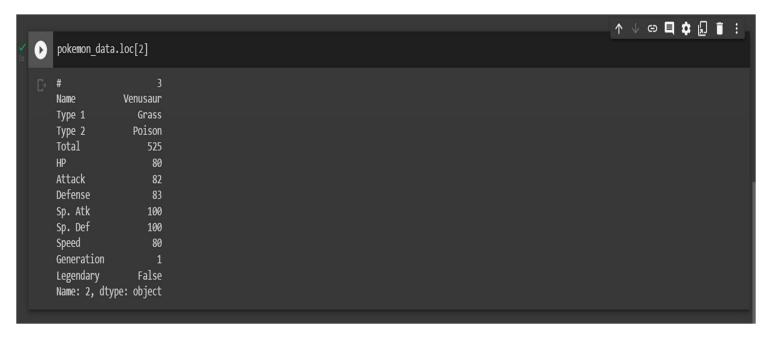
c. pokemon_data.info()

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↑ ↓ ⊖ 🔲 🗘 🗓 📋 :
   pokemon_data.info()
class 'pandas.core.frame.DataFrame'>
    RangeIndex: 800 entries, 0 to 799
   Data columns (total 13 columns):
    # Column
                   Non-Null Count Dtype
                   800 non-null
                                   int64
                   800 non-null
    1 Name
                                   object
        Type 1
                   800 non-null
                                   object
        Type 2
                   414 non-null
                                   object
        Total
                    800 non-null
                                   int64
    5 HP
                    800 non-null
                                   int64
    6 Attack
                   800 non-null
                                   int64
       Defense
                   800 non-null
                                   int64
                   800 non-null
                                   int64
    9 Sp. Def
                   800 non-null
                                   int64
    10 Speed
                  800 non-null
                                   int64
    11 Generation 800 non-null
                                   int64
   12 Legendary 800 non-null bood dtypes: bool(1), int64(9), object(3)
                                   bool
    memory usage: 75.9+ KB
```





d. pokemon_data.loc[2]

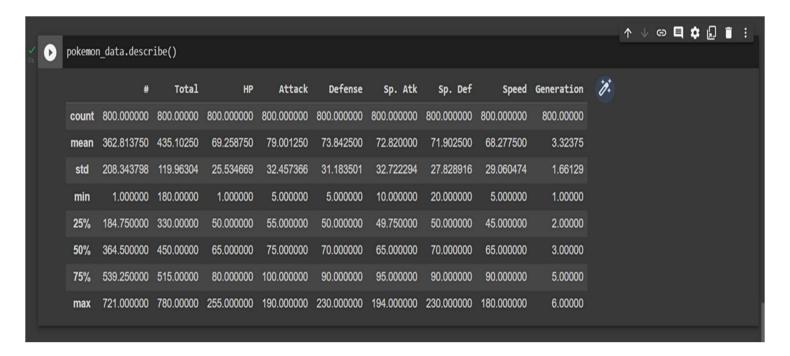








e. pokemon_data.describe()



Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

