



Experiment 1

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Branch: CSE Section/Group: 615/B

Semester: 5th Date of Performance: 04/09/2022

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

1. Aim/Overview of the practical: Exploratory Data

Analysis on any data set

2. Source Code: import pandas as pd

data=pd.read_csv("matches.csv")

print(data)

data.dtypes: Return the dtypes in the DataFrame.

data.axes: Return a list representing the axes of the DataFrame.

data.size: Return an int representing the number of elements in this object.

data.shape: Return a tuple representing the dimensionality of the

DataFrame.







data.empty: Indicator whether Series/DataFrame is empty.

data.head(): Return the first n rows.(default value of n is 5). data.head(2)

data.tail(): Return the last n rows.(default value of n is

5).

data.tail(2)

data.count(): Count non-NA cells for each column or row.

data.sort_values(by='id',ascending=False): Sort by the values along either axis.

new = data.dropna(): Remove missing

values. **print(new)**

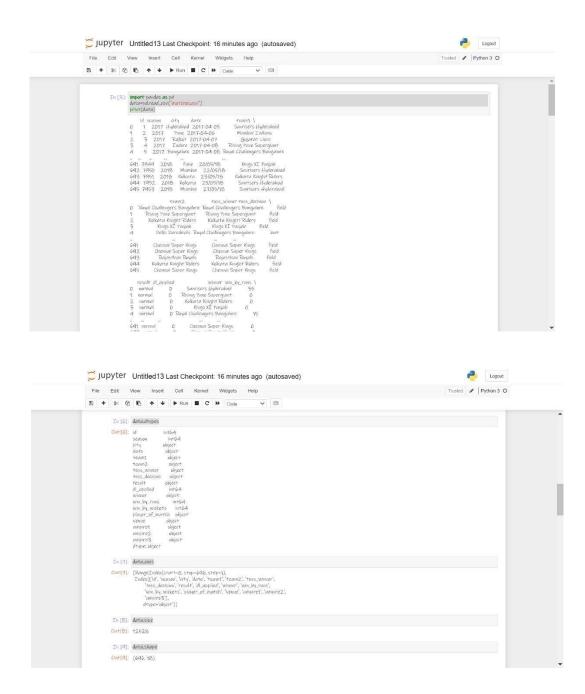
data.drop_duplicates(inplace=True): Return DataFrame with duplicate rows removed.

3. Result/Output





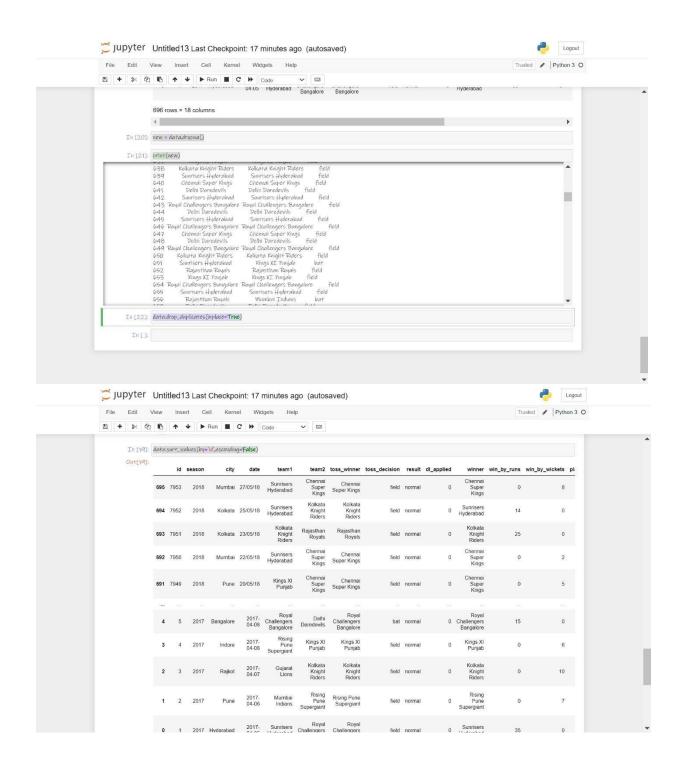








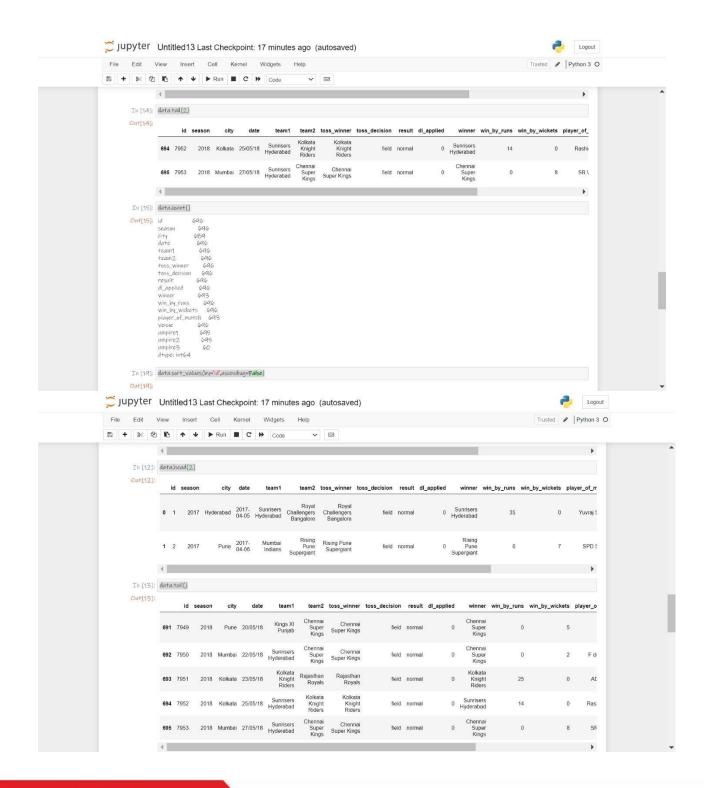








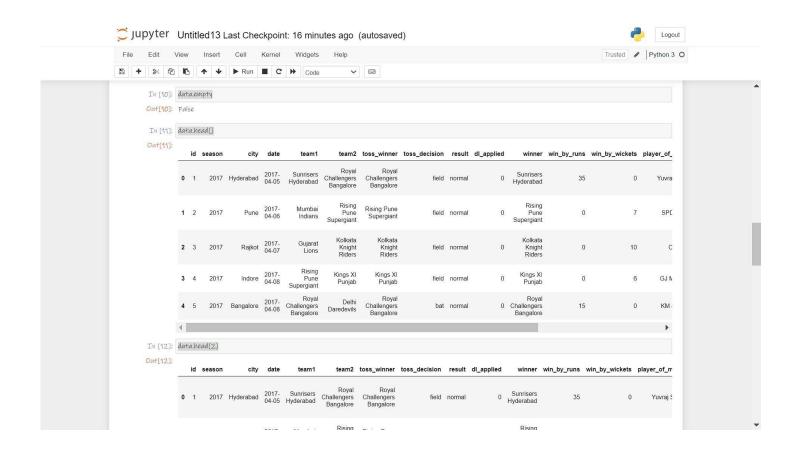












Learning outcomes (What I have learnt):

- 1. Learned how to use jupyter notebook.
- 2. Learned how to write python programs and its execution.







- 3. Learned how to import libraries.
- 4. Learned how to import dataset in python program using pandas library.
- 5. Learned how to perform exploratory data analysis on datasets.

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (Conduct of experiment) objectives/Outcomes.		12
2.	Viva Voce		10
3.	Submission of Work Sheet (Record)		8
	Total		30

