

## Practical - 4 2

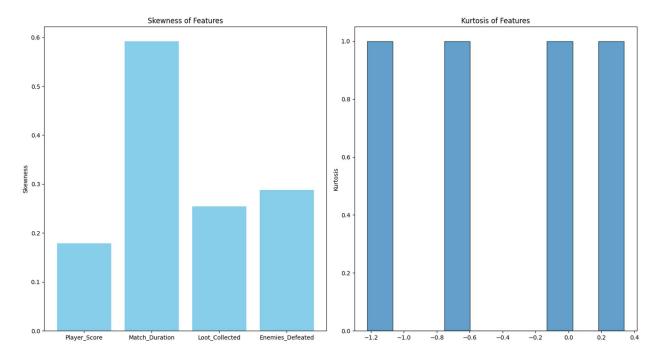
Aim: Write a program to compute summary statistics with use of two variability tricks Kurtosis and Skewness in 100 rows of Dataset.

• Code:

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
data set = pd.read csv("/content/drive/MyDrive/temp/practical 4 2.csv")
df = pd.DataFrame(data set)
num data = df.select dtypes(include=["int64", "float64"])
stats = {
  "skewness": num data.skew(),
  "kurtosis": num data.kurtosis()
stats table = pd.DataFrame(stats)
print("Result\n")
print(stats table)
fig, axes = plt.subplots(1, 2, figsize=(22, 8))
#! skewness bar chart
axes[0].bar(stats table.index, stats table["skewness"], color="skyblue")
axes[0].set ylabel("Skewness")
axes[0].set title("Skewness of Features")
axes[0].tick params(axis="x")
#! Kurtosis histo Chart
axes[1].hist(stats table["kurtosis"],bins=10, edgecolor='black', alpha=0.7)
axes[1].set ylabel("Kurtosis")
axes[1].set title("Kurtosis of Features")
axes[1].tick params(axis="x")
plt.tight layout()
plt.show()
```



## • Output:



Faculty Signature: \_\_\_\_\_ Date: \_\_\_\_\_