

# Data Mining Lab-1 (Data Preprocessing)

---

## DataSet:

Used Cricket DataSet

Link: </content/cricket.odb>

## Source Code:

```
import pandas as pd
import numpy as np

df=pd.read_csv('/content/odb.csv')
df1['SR'].replace('Unknown', np.nan, inplace=True)
df1['SR'].fillna(df['SR'].mean().round(2), inplace=True)
df1['BF'].fillna(df1['BF'].median(),inplace=True)
df1['50'].fillna(df1['50'].median(),inplace=True)
df1['0'].fillna(df1['0'].mean(),inplace=True)
df1['Runs'].fillna(df1['Runs'].median(),inplace=True)
import matplotlib.pyplot as plt
xaxis=df1['Mat']
yaxis=df1['SR']
plt.bar(xaxis,yaxis)
plt.show()
```

## Screenshots

[ ] df.isnull().sum()

Unnamed: 0	0
Player	0
Span	0
Mat	0
Inns	0
NO	2
Runs	9
HS	0
Ave	0
BF	31
SR	22
100	0
50	11
0	11
4s	11
6s	11

Python 3.10.4

```
df1['BF'].fillna(df1['BF'].median(),inplace=True)
df1['50'].fillna(df1['50'].median(),inplace=True)
df1['0'].fillna(df1['0'].mean(),inplace=True)
df1['Runs'].fillna(df1['Runs'].median(),inplace=True)
```

/tmp/ipython-input-58-2754236557.py:1: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method. The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform t

```
df1['BF'].fillna(df1['BF'].median(),inplace=True)
```

/tmp/ipython-input-58-2754236557.py:2: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method. The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform t

```
df1['50'].fillna(df1['50'].median(),inplace=True)
```

/tmp/ipython-input-58-2754236557.py:3: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method. The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform t

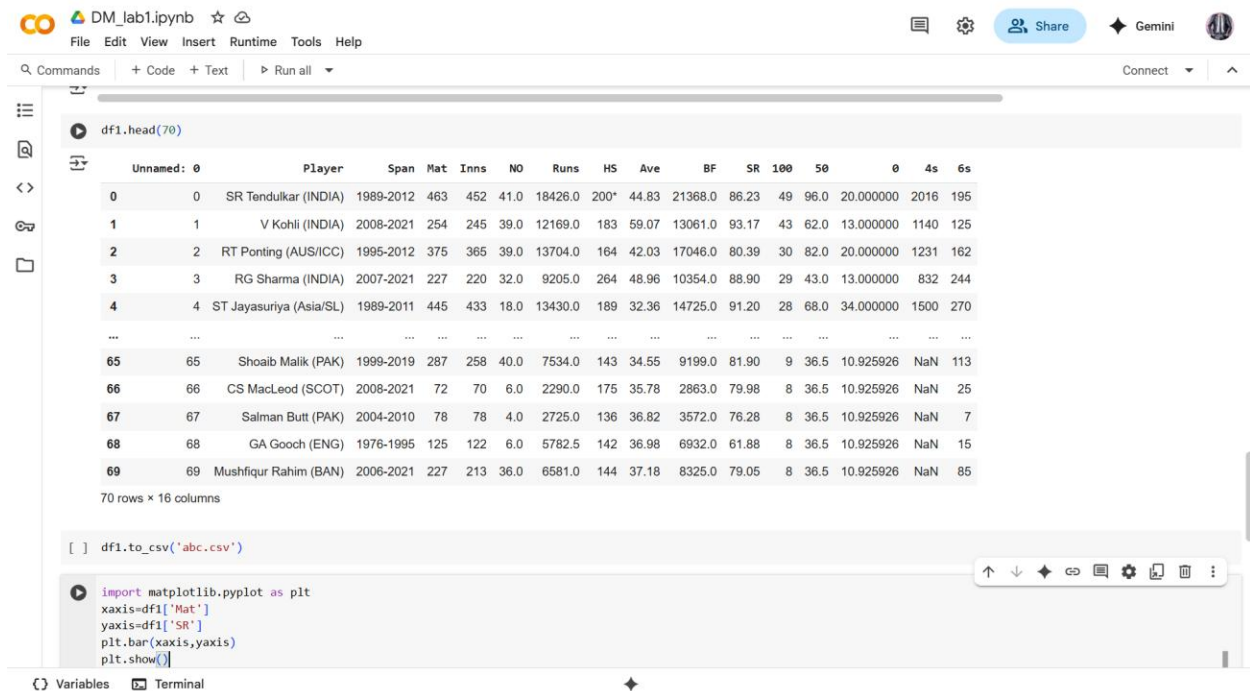
```
df1['0'].fillna(df1['0'].mean(),inplace=True)
```

/tmp/ipython-input-58-2754236557.py:4: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an inplace method. The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always behaves as a copy.

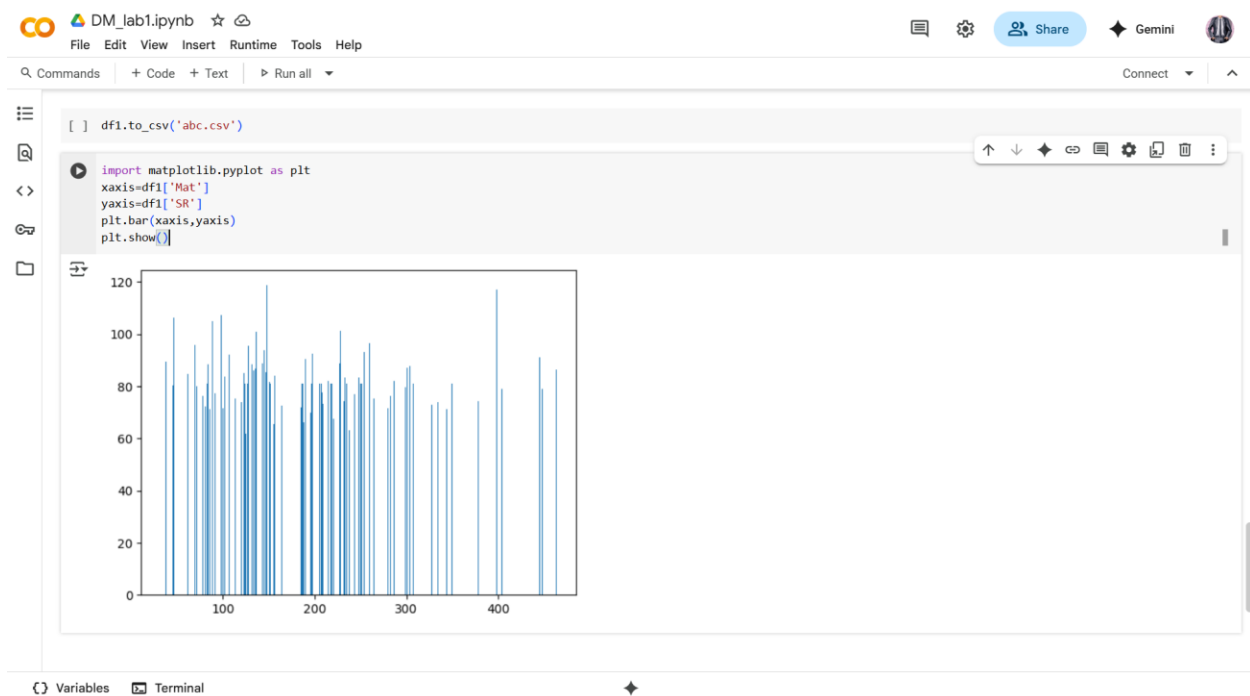
For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method({col: value}, inplace=True)' or df[col] = df[col].method(value) instead, to perform t

```
df1['Runs'].fillna(df1['Runs'].median(),inplace=True)
```

Variables Terminal



## Ober



## Observations:

1: we can say that sachin tedulkar is highest run getter

2:many cricketers have played more than 400 matches