EDS ASSIGNMENT NO. 5

Name : Siddharth Dnyaneshwar Tambe

Roll No. : 364

PRN : 202201090172

Div : C

Batch : C4

eds assignment 5

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

Reading the csv dataset in Python

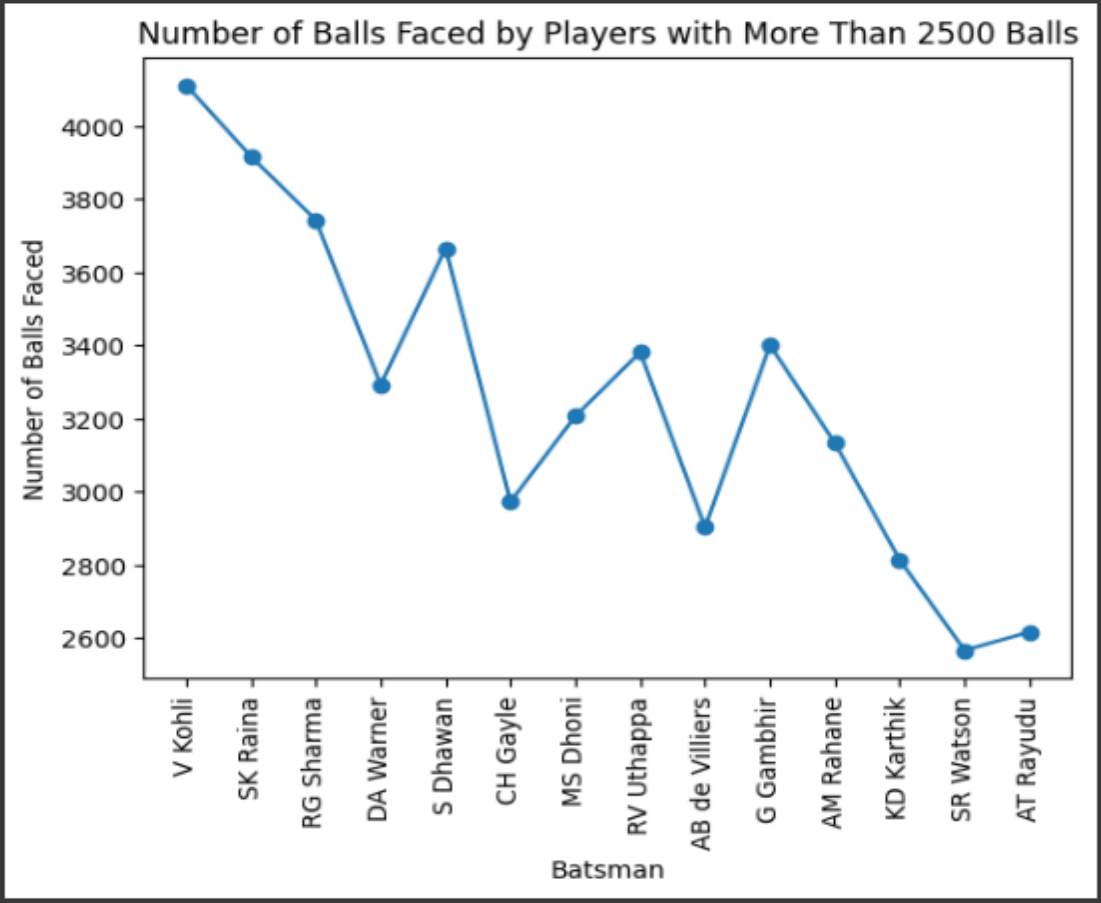
```
import pandas as pd
data = pd.read_csv('dataset.csv')
print(data)
```

	batsman	total_runs	out	numberofballs	average	strikerate
0	V Kohli	5426	152	4111	35.697368	131.987351
1	SK Raina	5386	160	3916	33.662500	137.538304
2	RG Sharma	4902	161	3742	30.447205	130.999466
3	DA Warner	4717	114	3292	41.377193	143.286756
4	S Dhawan	4601	137	3665	33.583942	125.538881
5	CH Gayle	4525	110	2972	41.136364	152.254374
6	MS Dhoni	4450	118	3206	37.711864	138.802246
7	RV Uthappa	4420	156	3381	28.333333	130.730553
8	AB de Villiers	4414	104	2902	42.442308	152.101999
9	G Gambhir	4219	134	3400	31.485075	124.088235
10	AM Rahane	3834	117	3133	32.769231	122.374721
11	KD Karthik	3669	138	2813	26.586957	130.430146
12	SR Watson	3590	115	2566	31.217391	139.906469
13	AT Rayudu	3313	114	2616	29.061404	126.643731
14	YK Pathan	3222	110	2240	29.290909	143.839286
15	BB McCullum	2886	106	2185	27.226415	132.082380
16	PA Patel	2864	127	2352	22.551181	121.768708
17	MK Pandey	2855	95	2352	30.052632	121.386054
18	KA Pollard	2772	102	1879	27.176471	147.525279
19	Yuvraj Singh	2755	109	2121	25.275229	129.891561
20	V Sehwag	2728	98	1746	27.836735	156.242841
21	M Vijay	2589	93	2104	27.838710	123.051331
22	SE Marsh	2489	65	1866	38.292308	133.386924
23	JH Kallis	2427	89	2219	27.269663	109.373592
24	DR Smith	2385	81	1758	29.444444	135.665529
25	SR Tendulkar	2334	71	1943	32.873239	120.123520
26	SV Samson	2215	79	1693	28.037975	130.832841
27	R Dravid	2174	77	1877	28.233766	115.823122
28	AC Gilchrist	2069	76	1492	27.223684	138.672922

+ Code + Text

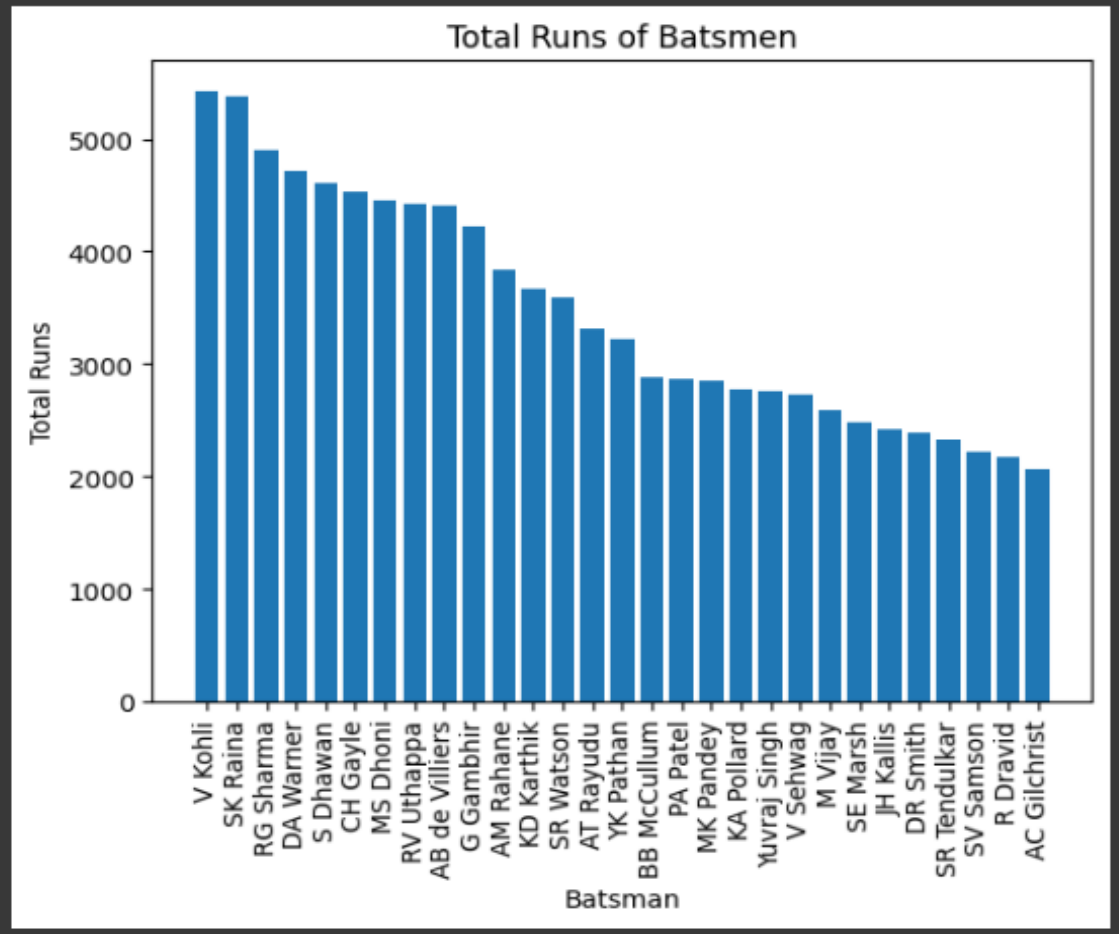
[2]
```
import matplotlib.pyplot as plt
```

```
# Filter the dataset for players who have faced more than 2500 balls
filtered_data = data[data['numberofballs'] > 2500]

# Line chart - Number of balls faced for players with more than 2500 balls
plt.plot(filtered_data['batsman'], filtered_data['numberofballs'], marker='o')
plt.xlabel('Batsman')
plt.ylabel('Number of Balls Faced')
plt.title('Number of Balls Faced by Players with More Than 2500 Balls')
plt.xticks(rotation=90)
plt.show()
```



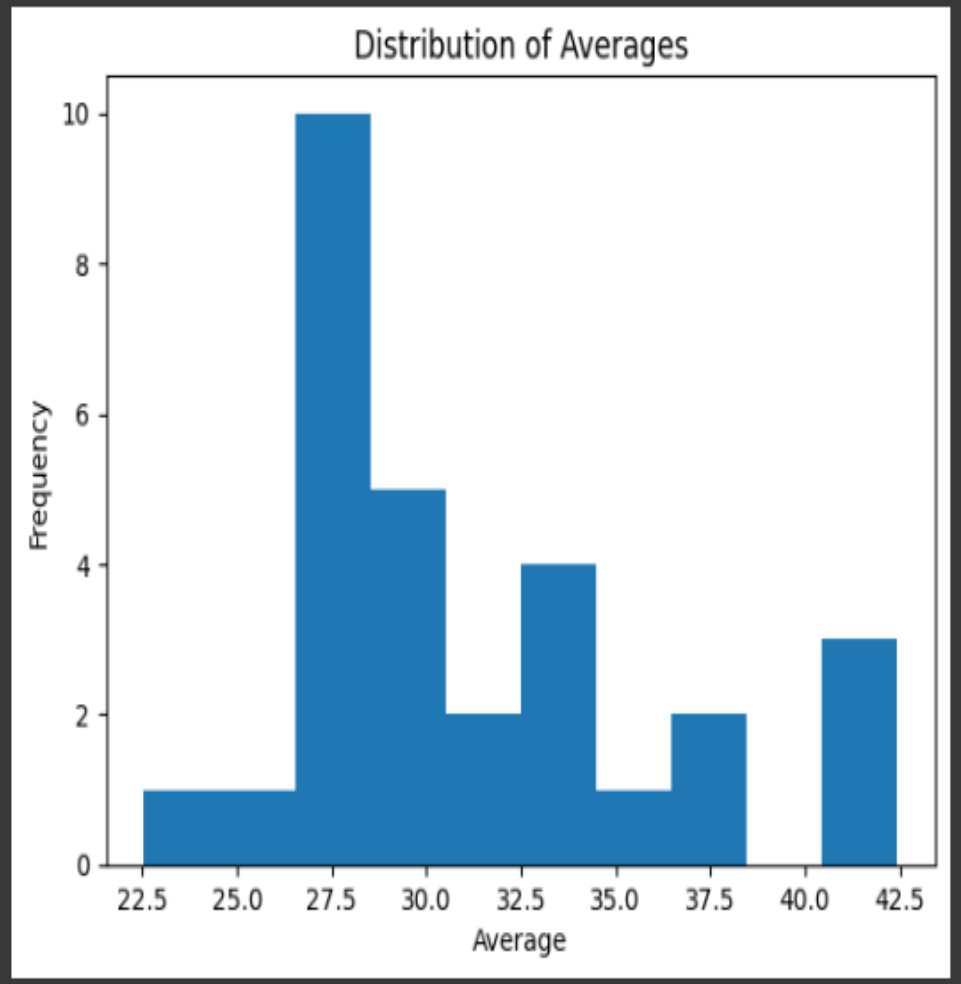
+ Code + Text

```
import matplotlib.pyplot as plt

# Bar chart - Total runs of batsmen
plt.bar(data['batsman'], data['total_runs'])
plt.xlabel('Batsman')
plt.ylabel('Total Runs')
plt.title('Total Runs of Batsmen')
plt.xticks(rotation=90)
plt.show()
```



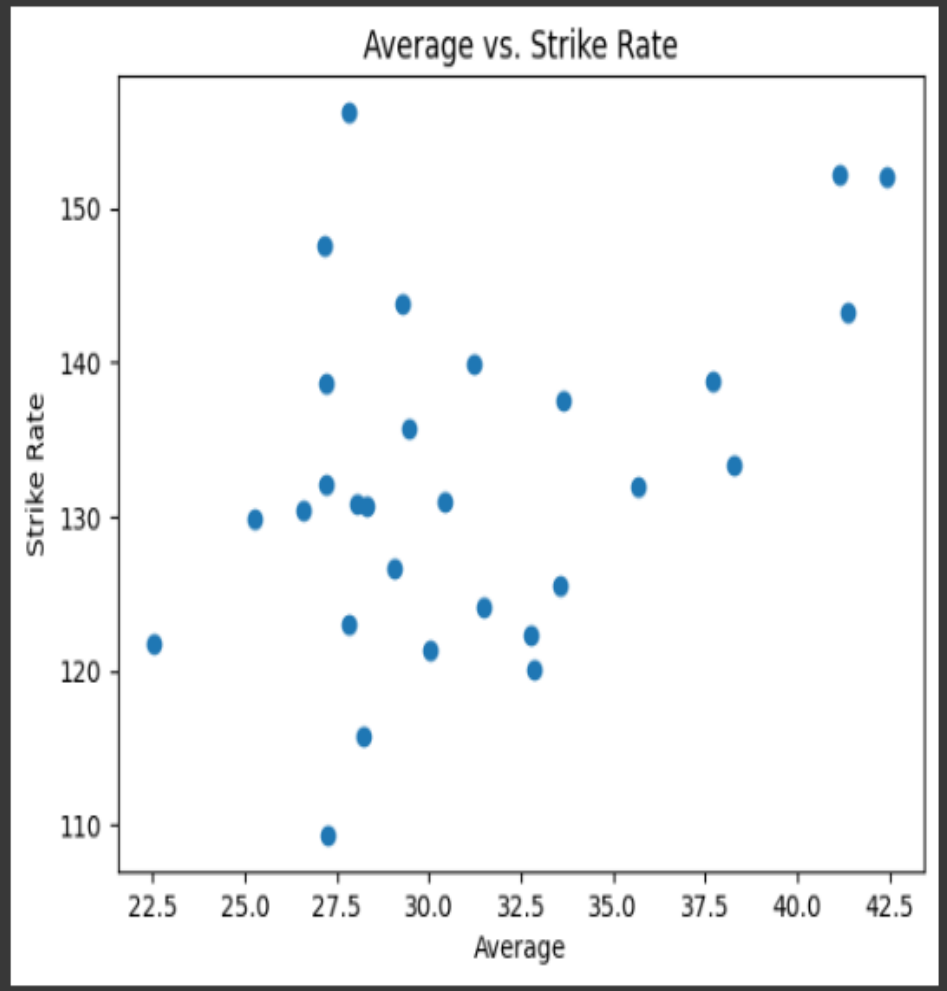
+ Code + Text

```
# Histogram - Distribution of averages
plt.hist(data['average'], bins=10)
plt.xlabel('Average')
plt.ylabel('Frequency')
plt.title('Distribution of Averages')
plt.show()
```



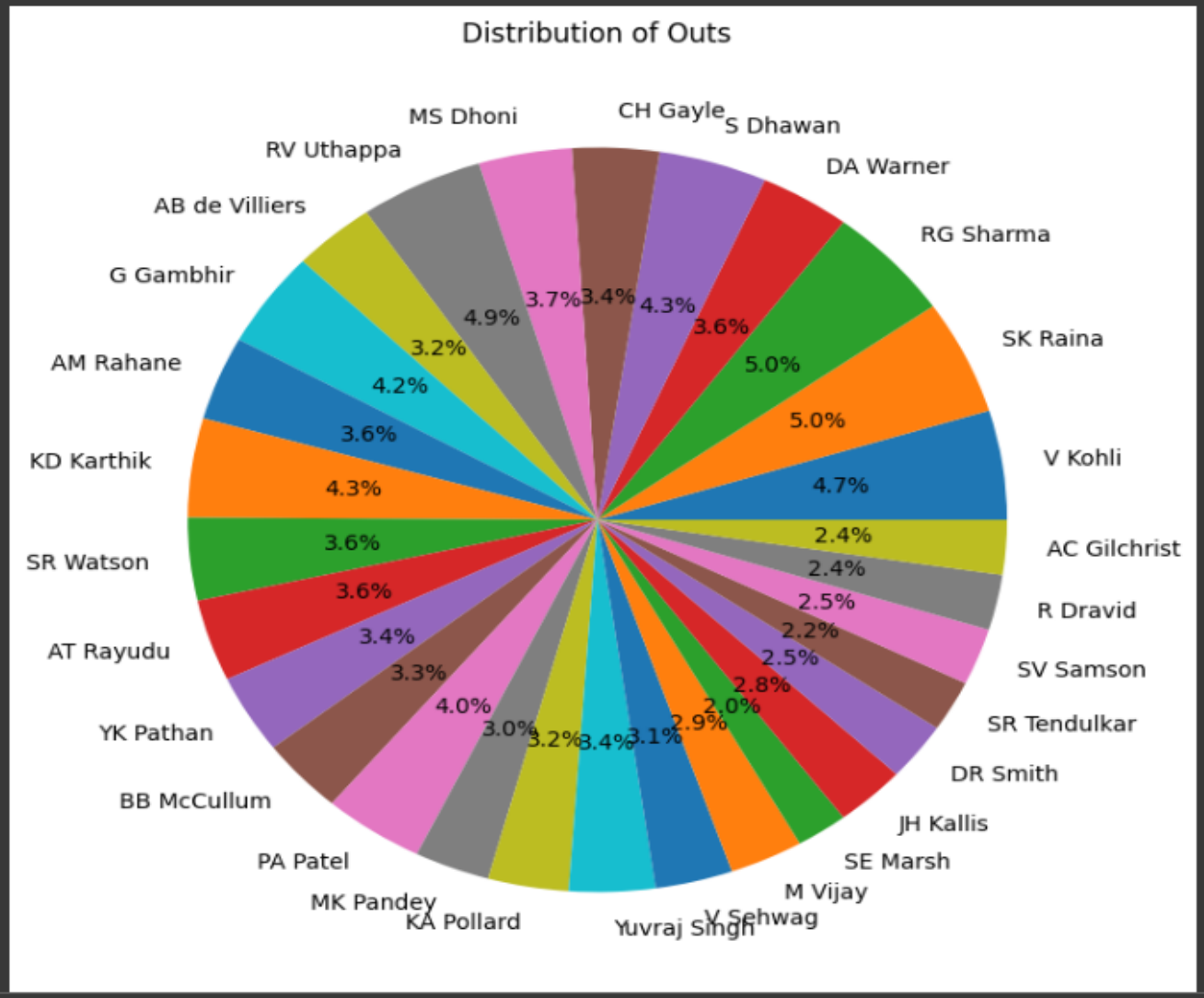
+ Code + Text

```
# Scatter plot - Average vs. Strike rate
plt.scatter(data['average'], data['strikerate'])
plt.xlabel('Average')
plt.ylabel('Strike Rate')
plt.title('Average vs. Strike Rate')
plt.show()
```



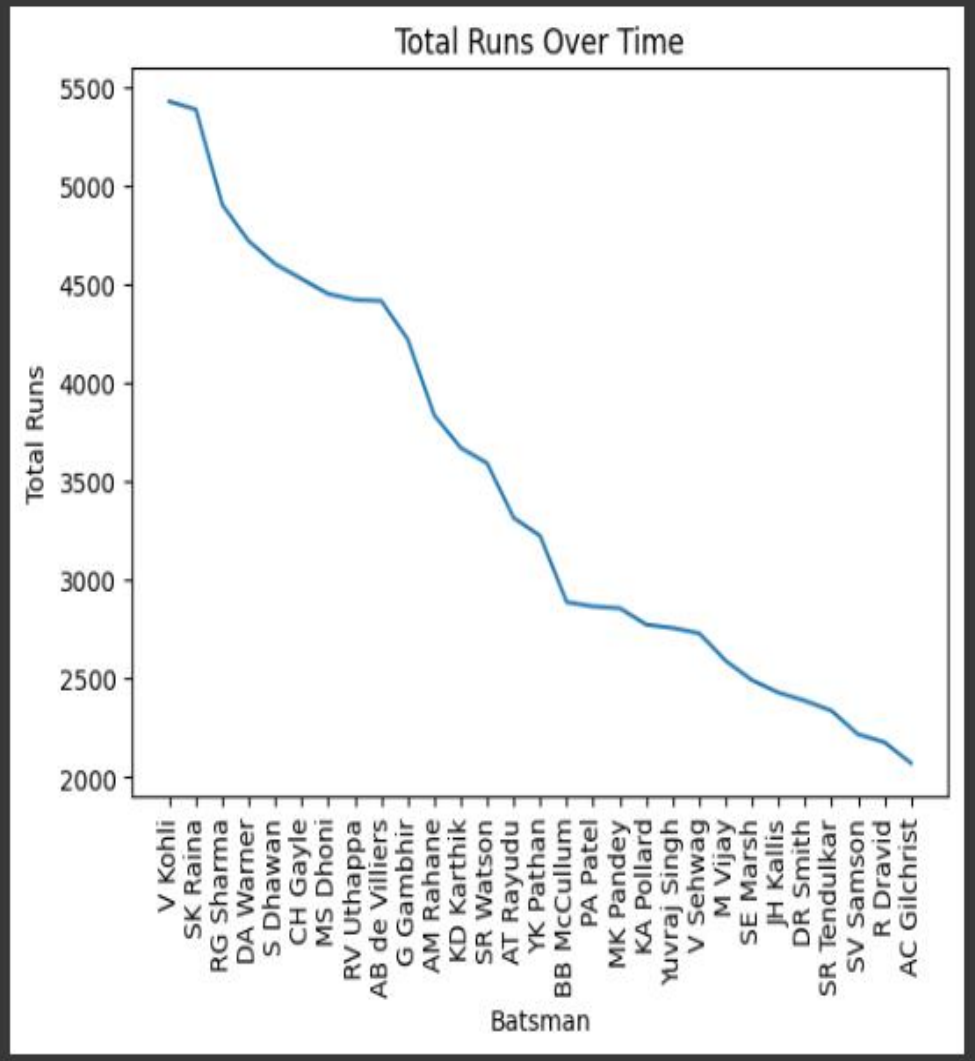
+ Code + Text

```
import matplotlib.pyplot as plt

# Pie chart - Distribution of outs
plt.figure(figsize=(8, 8))
plt.pie(data['out'], labels=data['batsman'], autopct='%1.1f%%', textprops={'rotation': 'horizontal'})
plt.title('Distribution of Outs')
plt.show()
```



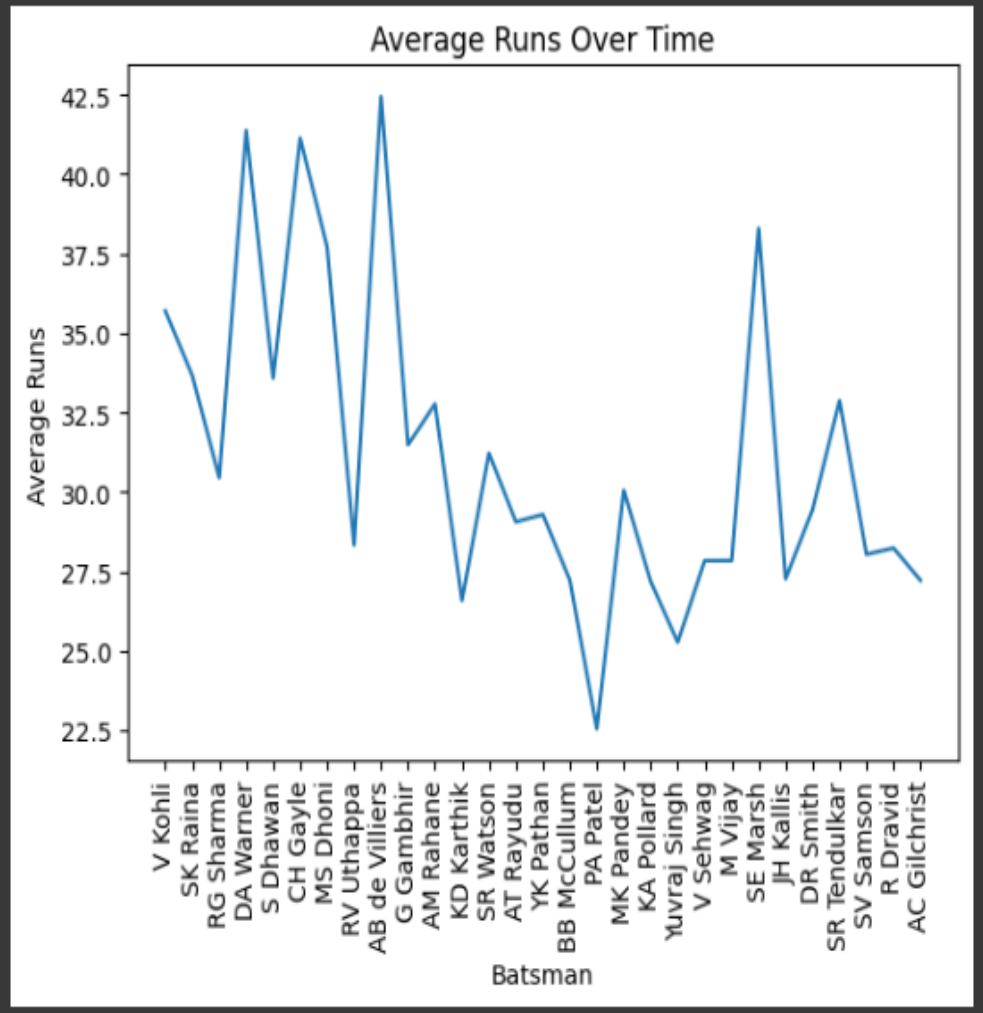
1s completed at 7:17 PM

```
plt.plot(data['batsman'], data['total_runs'])
plt.xlabel('Batsman')
plt.ylabel('Total Runs')
plt.title('Total Runs Over Time')
plt.xticks(rotation=90)
plt.show()
```



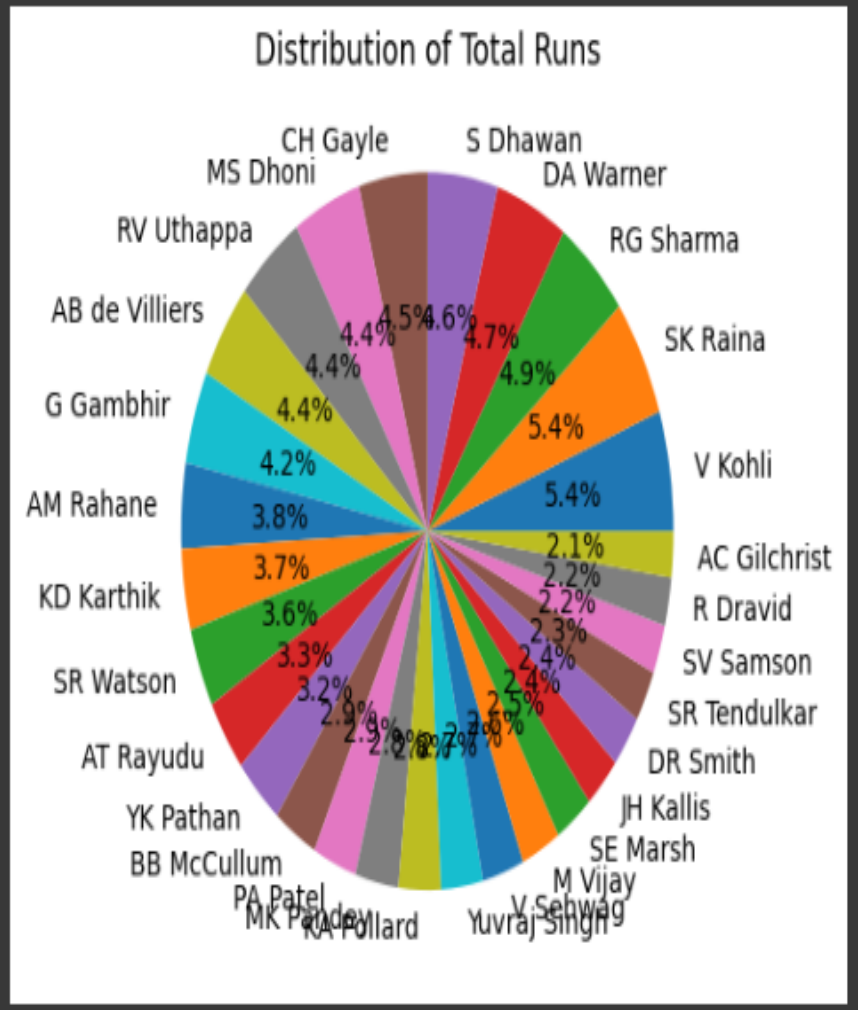
+ Code + Text

```
plt.plot(data['batsman'], data['average'])
plt.xlabel('Batsman')
plt.ylabel('Average Runs')
plt.title('Average Runs Over Time')
plt.xticks(rotation=90)
plt.show()
```



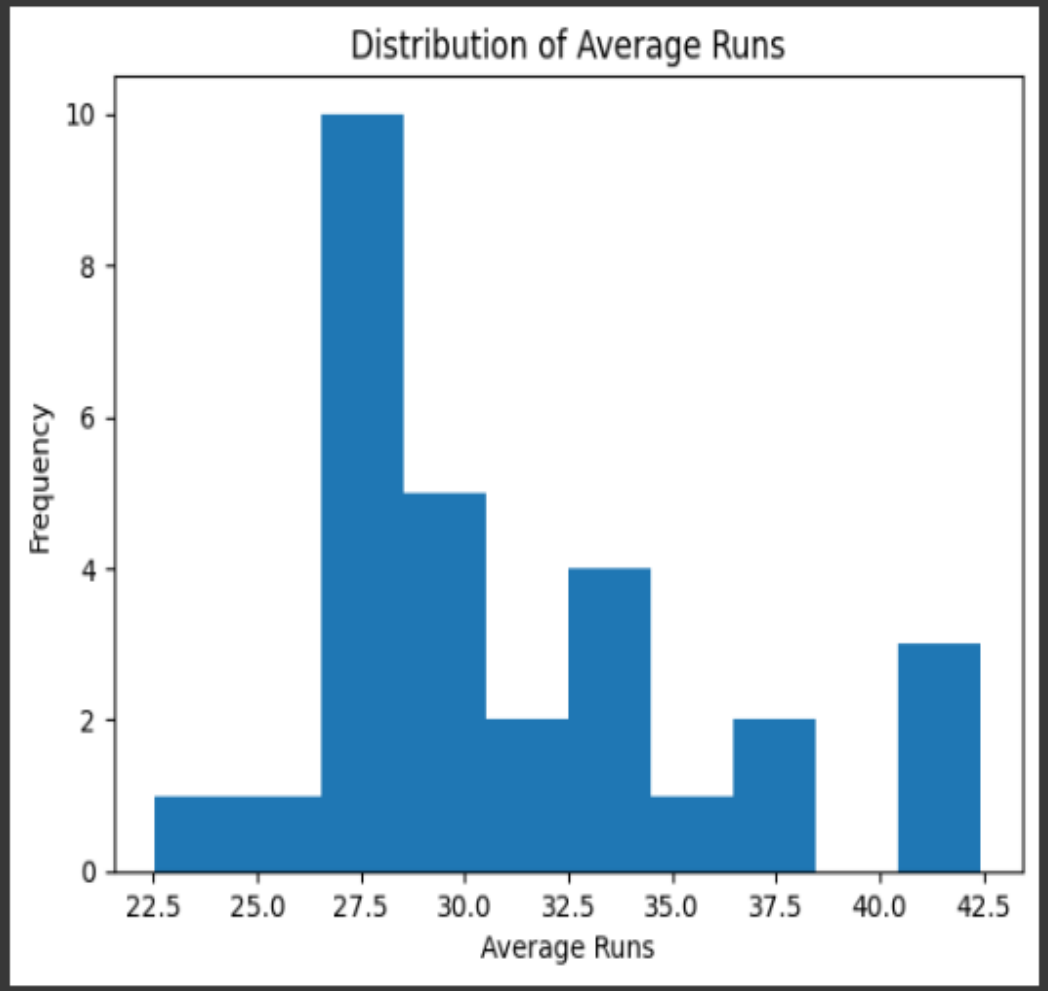
+ Code + Text

```
plt.pie(data['total_runs'], labels=data['batsman'], autopct='%1.1f%%')
plt.title('Distribution of Total Runs')
plt.show()
```

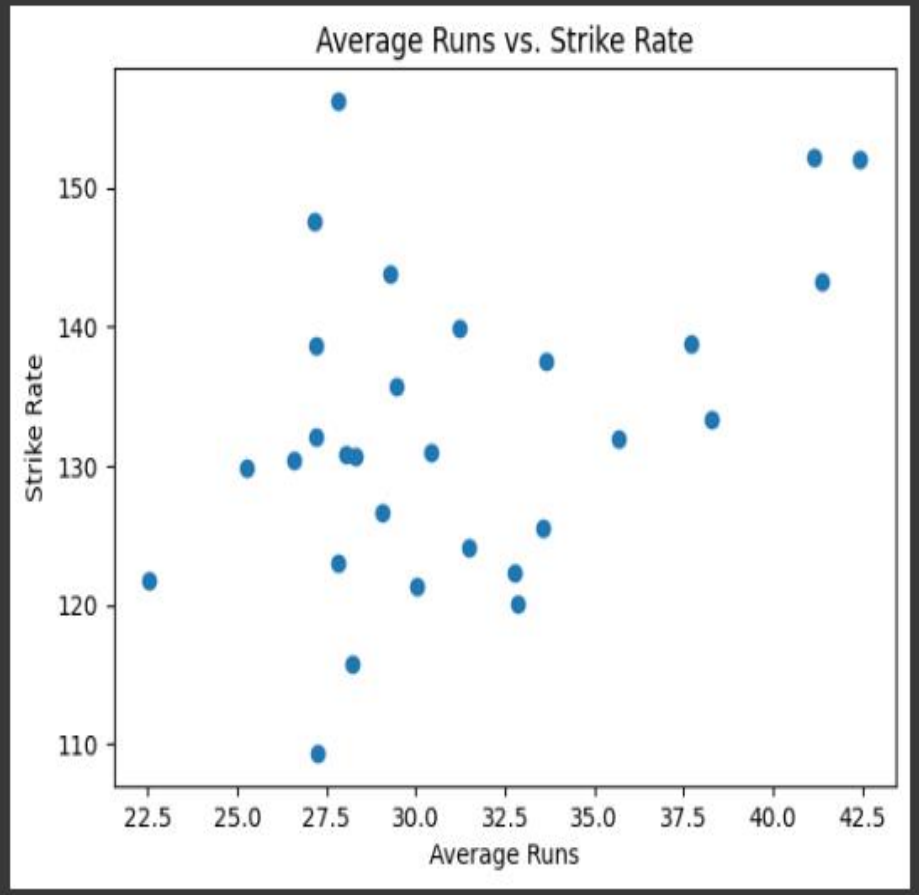


+ Code + Text

```
plt.hist(data['average'], bins=10)
plt.xlabel('Average Runs')
plt.ylabel('Frequency')
plt.title('Distribution of Average Runs')
plt.show()
```



```
plt.scatter(data['average'], data['strikerate'])
plt.xlabel('Average Runs')
plt.ylabel('Strike Rate')
plt.title('Average Runs vs. Strike Rate')
plt.show()
```



1 to 29 of 29 entries Filter

batsman	total_runs	out	numberofballs	average	strikerate
V Kohli	5426	152	4111	35.69736842	131.987351
SK Raina	5386	160	3916	33.6625	137.5383044
RG Sharma	4902	161	3742	30.44720497	130.9994655
DA Warner	4717	114	3292	41.37719298	143.2867558
S Dhawan	4601	137	3665	33.58394161	125.5388813
CH Gayle	4525	110	2972	41.13636364	152.2543742
MS Dhoni	4450	118	3206	37.71186441	138.8022458
RV Uthappa	4420	156	3381	28.33333333	130.7305531
AB de Villiers	4414	104	2902	42.44230769	152.1019986
G Gambhir	4219	134	3400	31.48507463	124.0882353
AM Rahane	3834	117	3133	32.76923077	122.3747207
KD Karthik	3669	138	2813	26.58695652	130.4301458
SR Watson	3590	115	2566	31.2173913	139.9064692
AT Rayudu	3313	114	2616	29.06140351	126.6437309
YK Pathan	3222	110	2240	29.29090909	143.8392857
BB McCullum	2886	106	2185	27.22641509	132.0823799
PA Patel	2864	127	2352	22.5511811	121.7687075
MK Pandey	2855	95	2352	30.05263158	121.3860544
KA Pollard	2772	102	1879	27.17647059	147.5252794
Yuvraj Singh	2755	109	2121	25.27522936	129.8915606
V Sehwag	2728	98	1746	27.83673469	156.2428408
M Vijay	2589	93	2104	27.83870968	123.0513308
SE Marsh	2489	65	1866	38.29230769	133.3869239
JH Kallis	2427	89	2219	27.26966292	109.3735917
DR Smith	2385	81	1758	29.44444444	135.665529
SR Tendulkar	2334	71	1943	32.87323944	120.1235203
SV Samson	2215	79	1693	28.03797468	130.8328411
R Dravid	2174	77	1877	28.23376623	115.823122
AC Gilchrist	2069	76	1492	27.22368421	138.6729223

Show 100 per page