

```
In [15]: import pandas as pd
df=pd.read_csv('C:/Users/palak/Desktop/Cancer_Data.csv')
```

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In [17]: import matplotlib.pyplot as plt
```

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In [16]: df.head(20)
```

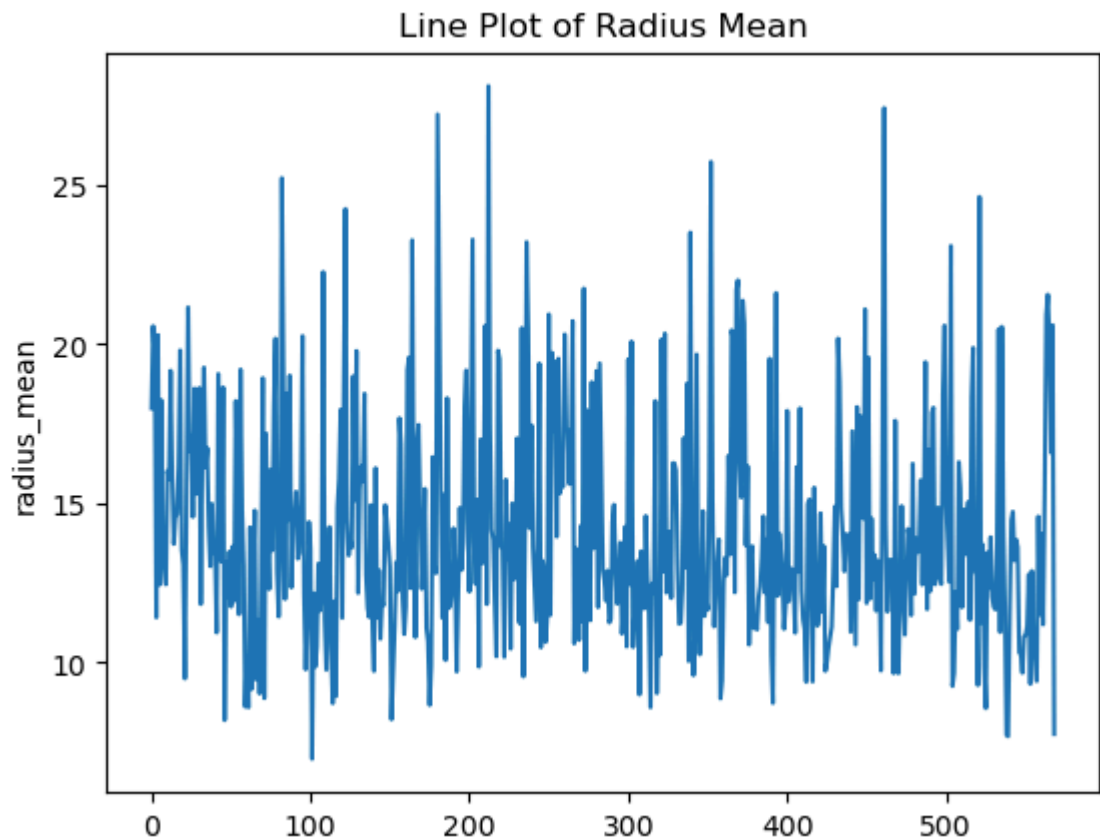
```
Out[16]:
```

	id	diagnosis	radius_mean	texture_mean	perimeter_mean	area_mean	smo
0	842302	M	17.99	10.38	122.80	1001.0	
1	842517	M	20.57	17.77	132.90	1326.0	
2	84300903	M	19.69	21.25	130.00	1203.0	
3	84348301	M	11.42	20.38	77.58	386.1	
4	84358402	M	20.29	14.34	135.10	1297.0	
5	843786	M	12.45	15.70	82.57	477.1	
6	844359	M	18.25	19.98	119.60	1040.0	
7	84458202	M	13.71	20.83	90.20	577.9	
8	844981	M	13.00	21.82	87.50	519.8	
9	84501001	M	12.46	24.04	83.97	475.9	
10	845636	M	16.02	23.24	102.70	797.8	
11	84610002	M	15.78	17.89	103.60	781.0	
12	846226	M	19.17	24.80	132.40	1123.0	
13	846381	M	15.85	23.95	103.70	782.7	
14	84667401	M	13.73	22.61	93.60	578.3	
15	84799002	M	14.54	27.54	96.73	658.8	
16	848406	M	14.68	20.13	94.74	684.5	
17	84862001	M	16.13	20.68	108.10	798.8	
18	849014	M	19.81	22.15	130.00	1260.0	
19	8510426	B	13.54	14.36	87.46	566.3	

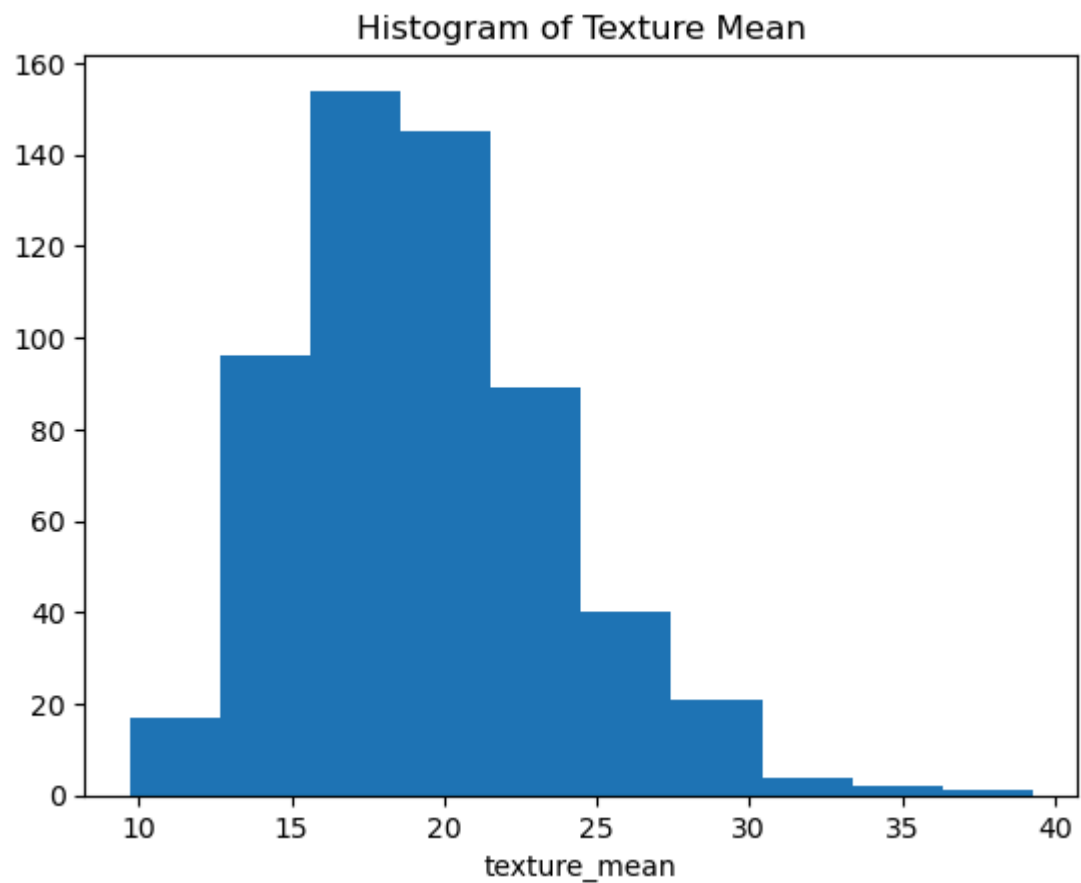
20 rows × 33 columns



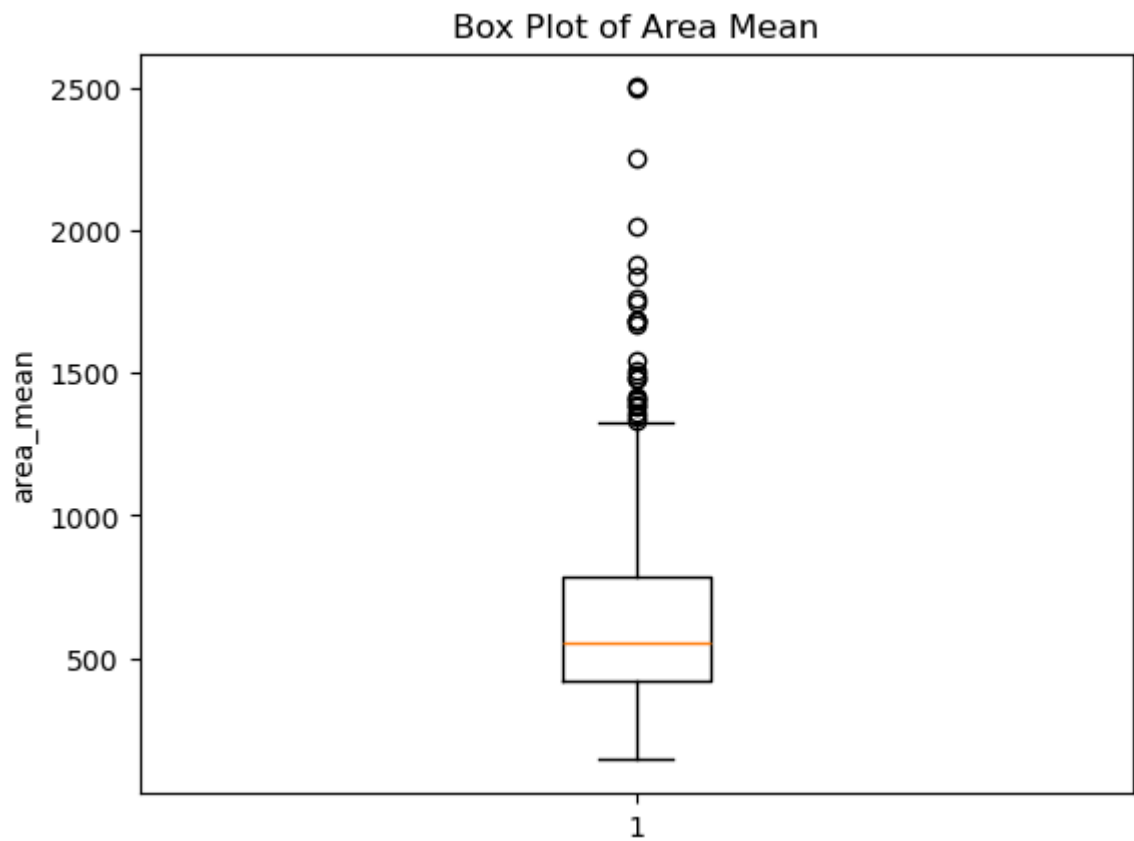
```
In [18]: plt.plot(df["radius_mean"])
plt.title("Line Plot of Radius Mean")
plt.ylabel("radius_mean")
plt.show()
```



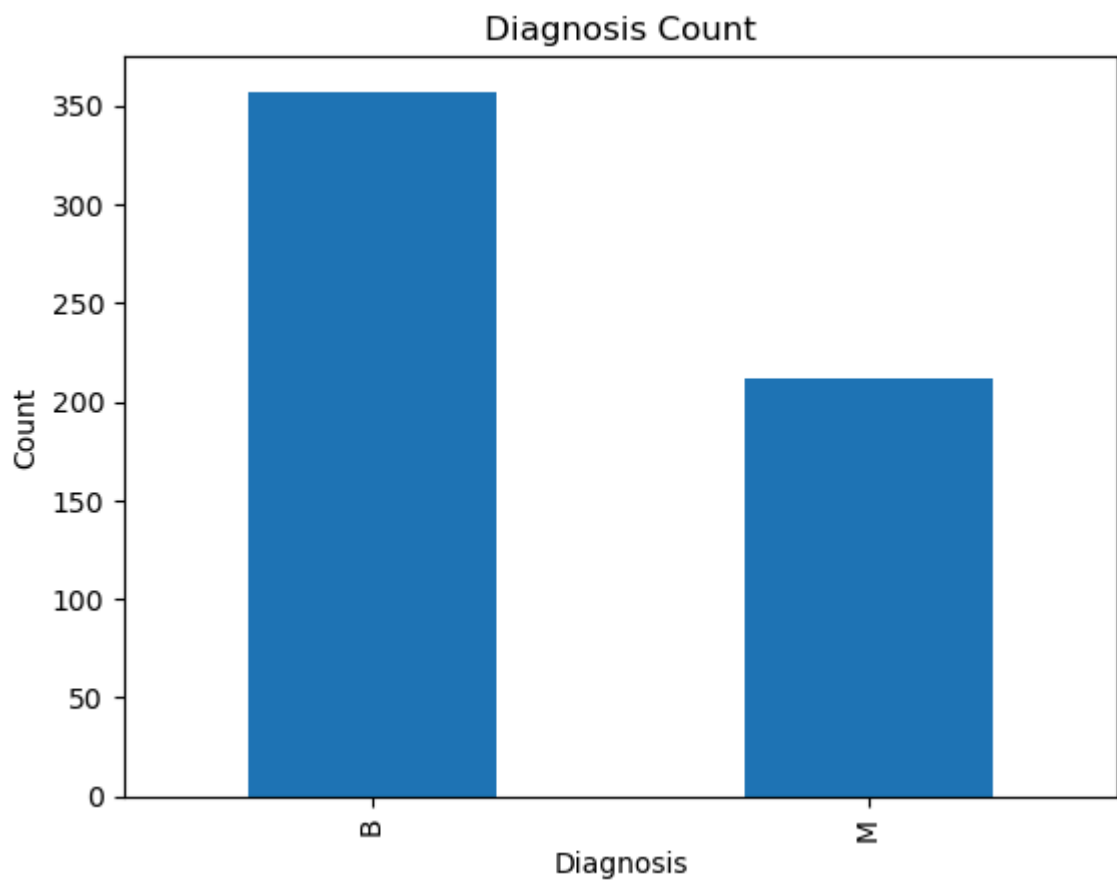
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In [19]: plt.hist(df["texture_mean"])
plt.title("Histogram of Texture Mean")
plt.xlabel("texture_mean")
plt.show()
```



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In [20]: plt.boxplot(df["area_mean"])
plt.title("Box Plot of Area Mean")
plt.ylabel("area_mean")
plt.show()
```



```
In [21]: df["diagnosis"].value_counts().plot(kind="bar")
plt.title("Diagnosis Count")
plt.xlabel("Diagnosis")
plt.ylabel("Count")
plt.show()
```



```
In [22]: plt.scatter(df["radius_mean"], df["area_mean"])
plt.title("Scatter Plot: Radius Mean vs Area Mean")
plt.xlabel("radius_mean")
plt.ylabel("area_mean")
plt.show()
```

