NAME- DHANA KORANGA

MCA-3B

ROLL NO -2001056

1.

#look for missing values

df.isna().sum()

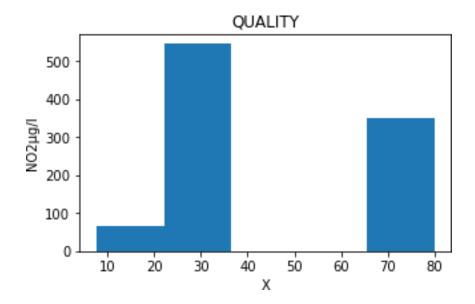
```
0
location
month
                    0
                    0
year
SO2 µg/l
                    0
NO2µg/l
                    0
PM10 \mug/l
                    0
PM2.5 \mu g/l
                    0
CO \mu g/1
                    0
03 \mu g/1 8 HR
                    0
NH3 \mu g/l
AQI
                    0
```

histogram

Air Quality dtype: int64

```
import matplotlib.pyplot as plt
fig, ax = plt.subplots(figsize=(5,3))
plt.hist(df['NO2µg/l'],bins=5)
plt.title('QUALITY')
plt.xlabel('X')
plt.ylabel('NO2µg/l')
plt.show()
```

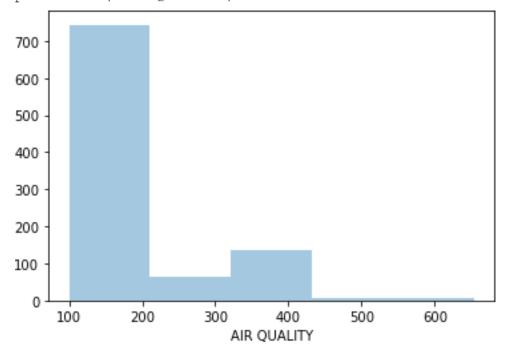
0



using seaborn

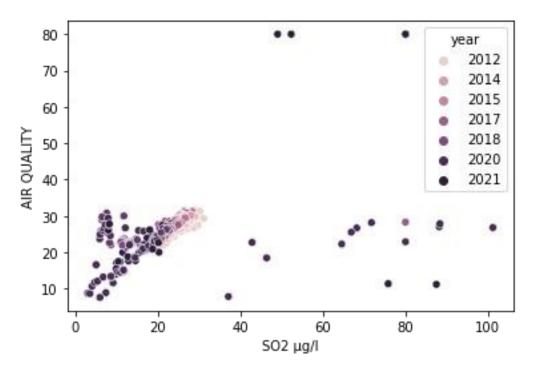
import seaborn as sns

sns.distplot(df['AQI'],kde=False,bins=5)
plt.xlabel('AIR QUALITY')



. SCATTER PLOT

```
scatterplot(df['SO2 \mug/l'],df['NO2\mug/l'], hue=df['year']) plt.ylabel("AIR QUALITY") plt.show()
```

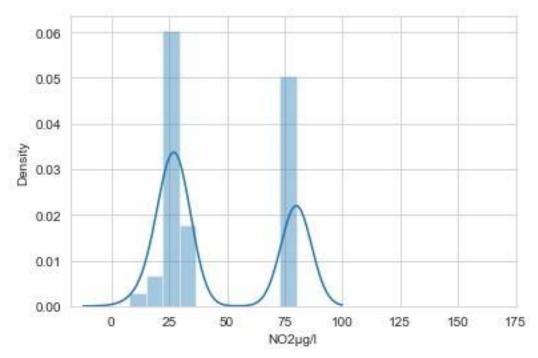


box plot

Box Plot visualization MSSubClass with Seaborn

```
import seaborn as sns
```

```
sns.distplot(df['NO2µg/1'],bins=10)
plt.xticks(range(0,200,25))
plt.show()
```

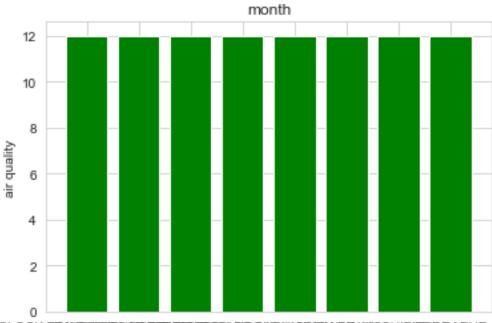


BAR GRAPH

```
X = list(df.iloc[:, 0])
Y = list(df.iloc[:, 1])

# Plot the data using bar() methodplt.bar(X, Y, color='g') plt.title("month") plt.xlabel("Years")
plt.ylabel("air quality") figsize=(10,10)

# Show the plot
plt.show()
```



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