LAB-2 : Machine-learning model that predicts the median housing price

1. Plot the histogram of each feature(Indicate what does histogramindicate on median_income and house_median_age)

```
housing.hist(bins=50, figsize=(20, 15))
plt.show()
```

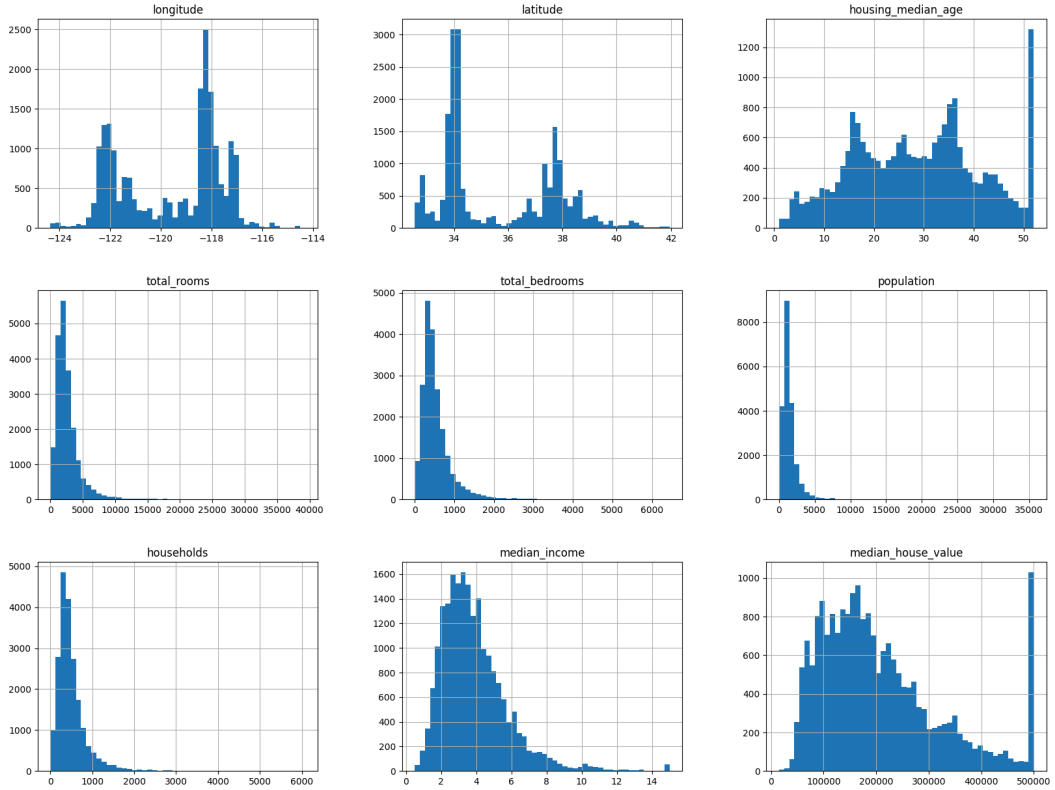

Figure 1 : *Histogram indicate on median_income and house_median_age*

2.Plott a graph to Visualize Geographical Data(what does the graph indicate w.r.t housing prices and location)

```
housing.plot(kind="scatter", x="longitude", y="latitude", alpha=0.4,
             s=housing["population"]/100, label="population",
figsize=(10,7),
             c="median_house_value", cmap=plt.get_cmap("jet"),
colorbar=True)
plt.legend()
plt.show()
```

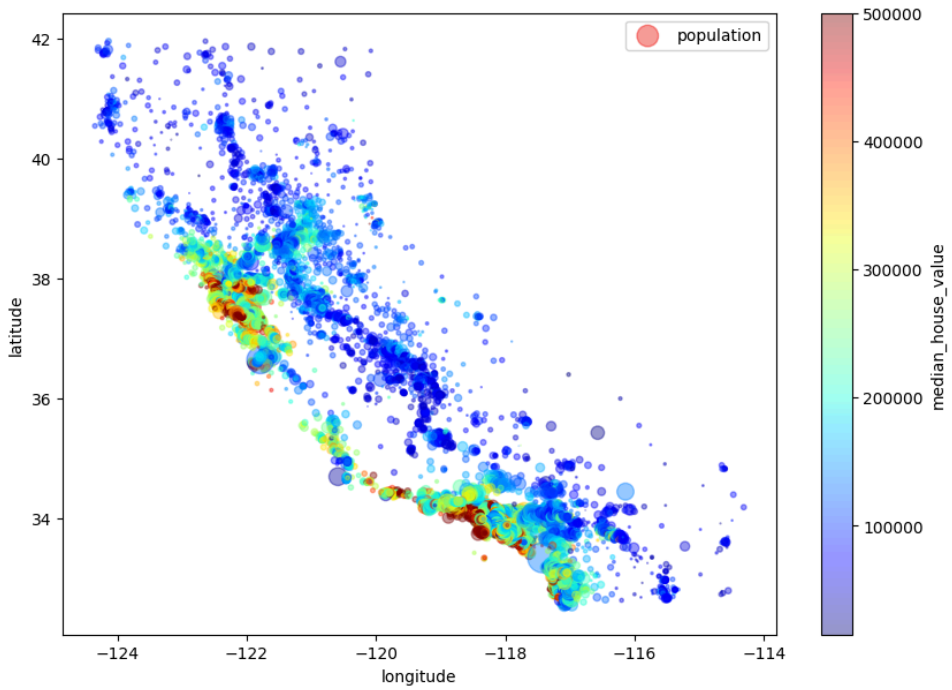

Figure 2 : *graph indicate w.r.t housing prices and location*

3.Plot a graph to show features correlation with housing price. Which feature corelates to the maximum. Plot the graph for that with housing price and analyze what the graph indicate

```
housing.plot(kind="scatter", x="median_income", y="median_house_value",
alpha=0.1)
plt.show()
```

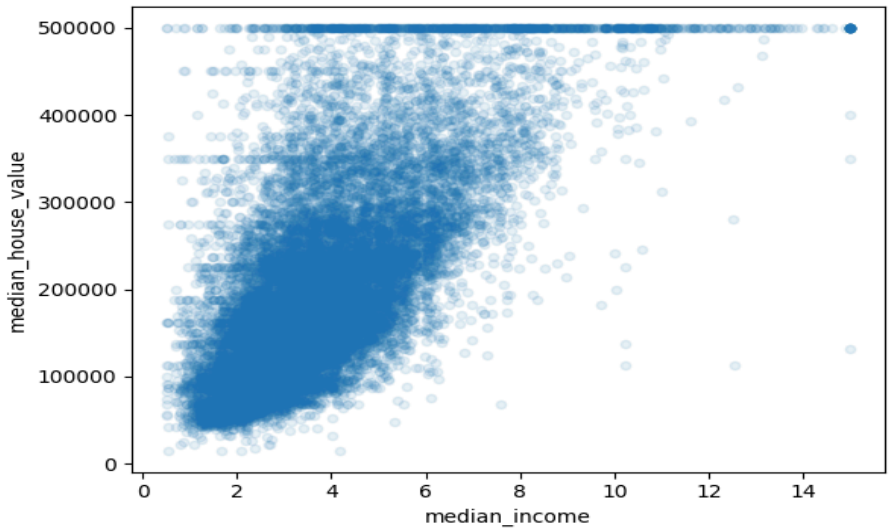

Figure 3 : features correlation with housing price.