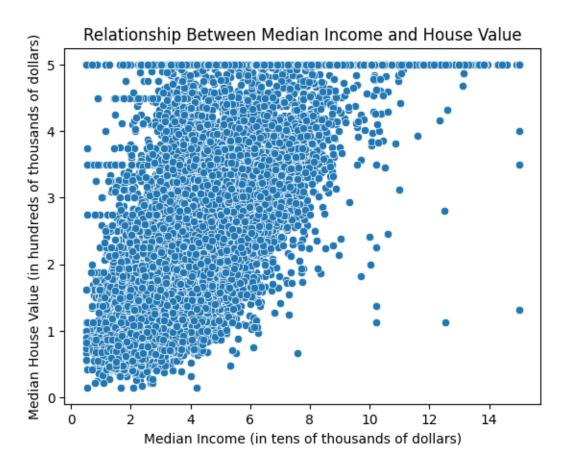
lab2

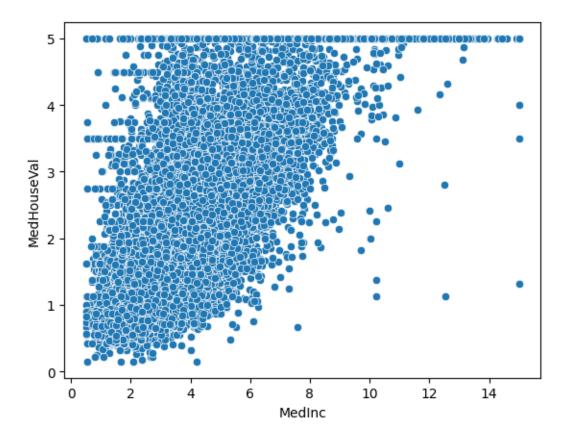
January 20, 2025

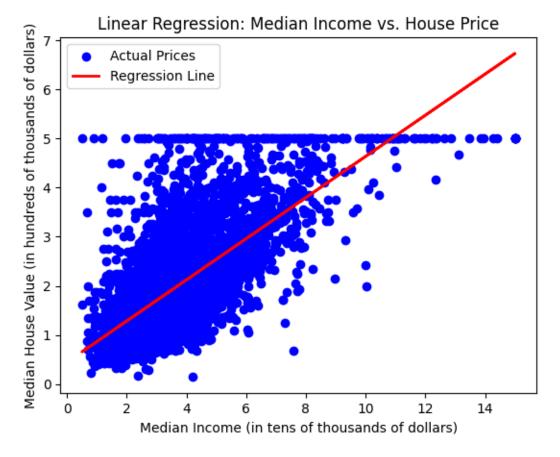
```
[1]: from sklearn.datasets import fetch_california_housing
      import pandas as pd
      data = fetch_california_housing()
      df = pd.DataFrame(data.data, columns=data.feature_names)
      df['MedHouseVal'] = data.target
 [3]: print(df.shape)
     (20640, 9)
 [5]: print(df.columns)
     Index(['MedInc', 'HouseAge', 'AveRooms', 'AveBedrms', 'Population', 'AveOccup',
            'Latitude', 'Longitude', 'MedHouseVal'],
           dtype='object')
[10]: import seaborn as sns
      import matplotlib.pyplot as plt
      sns.scatterplot(x=df['MedInc'], y=df['MedHouseVal'])
      plt.xlabel("Median Income (in tens of thousands of dollars)")
      plt.ylabel("Median House Value (in hundreds of thousands of dollars)")
      plt.title("Relationship Between Median Income and House Value")
      plt.show()
```



```
[11]: sns.scatterplot(x=df['MedInc'], y=df['MedHouseVal'])
```

[11]: <Axes: xlabel='MedInc', ylabel='MedHouseVal'>





Predicted House Price for a Median Income of \$60,000: \$296062.83