## Boston-House-Prediction

## March 10, 2019

In [1]: import numpy as np

import pandas as pd

```
import matplotlib.pyplot as plt
        import seaborn as sns
        from sklearn.model_selection import ShuffleSplit
In [6]: # Load the Boston housing dataset
        data = pd.read_csv('data.csv')
        cols=list(data)
        prices = data['MDEV']
        features = data.drop('MDEV', axis = 1)
        # Success
        print("Boston housing dataset has {} data points with {} variables each.".format(*data.s
Boston housing dataset has 489 data points with 4 variables each.
In [7]: # Minimum price of the data
        minimum_price = np.amin(prices)
        # Maximum price of the data
        maximum_price = np.amax(prices)
        # Mean price of the data
        mean_price = np.mean(prices)
        # Median price of the data
        median_price = np.median(prices)
        # Standard deviation of prices of the data
        std_price = np.std(prices)
        # Show the calculated statistics
        print("Statistics for Boston housing dataset:\n")
        print("Minimum price: ${}".format(minimum_price))
        print("Maximum price: ${}".format(maximum_price))
        print("Mean price: ${}".format(mean_price))
```

```
print("Median price ${}".format(median_price))
    print("Standard deviation of prices: ${}".format(std_price))

Statistics for Boston housing dataset:

Minimum price: $105000.0

Maximum price: $1024800.0

Mean price: $454342.9447852761

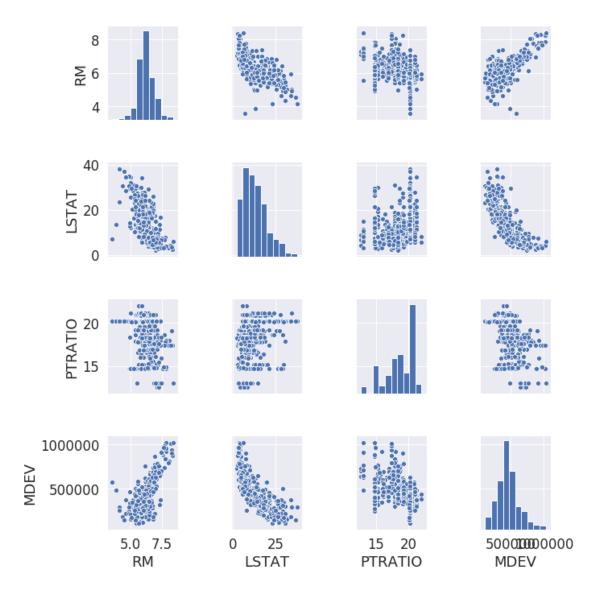
Median price $438900.0

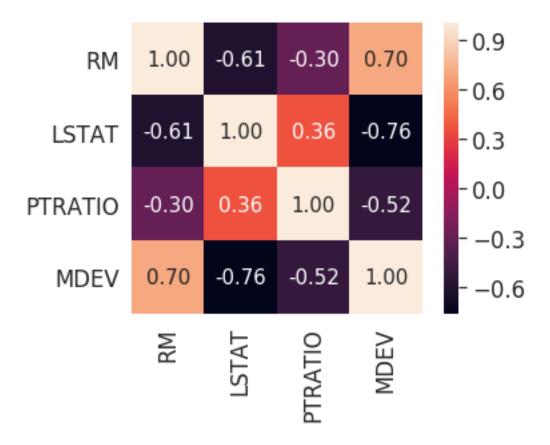
Standard deviation of prices: $165171.13154429474

In [8]: # Calculate and show pairplot
    sns.pairplot(data, size=2.5)
```

plt.tight\_layout()

/home/pc-3/.local/lib/python3.6/site-packages/seaborn/axisgrid.py:2065: UserWarning: The `size` warnings.warn(msg, UserWarning)





Training and testing split was successful.

In []: