Step 1: Loading BOSTON dataset.

Step 2: Basic EDA.

Step 3: Stats with output/target MEDV variable.

Step 4: Outliers.

Step 5: Plotting and modelling requirements.

Step 6: Comparison of RMSE with various factor.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RMSE Value | | Outliers | | | | | | Without Outliers | | | | | |
| Seed(35) | | Seed(45) | | Seed(52) | | Seed(35) | | Seed(45) | | Seed(52) | |
| Train | Test | Train | Test | Train | Test | Train | Test | Train | Test | Train | Test |
| Size Split | 70:30 | 4.65 | 5.27 | 4.52 | 6.12 | 4.86 | **3.99** | 4.35 | 5.63 | 4.57 | 5.64 | 4.63 | 4.96 |
| 75:25 | 4.70 | 4.97 | 4.29 | 6.64 | 4.79 | 4.08 | 4.27 | 6.03 | 4.68 | **3.84** | 5.14 | **4.38** |
| 80:20 | 4.60 | **4.30** | 4.42 | 5.98 | **4.68** | 4.34 | 4.21 | **5.37** | 4.39 | 5.15 | 4.51 | 5.48 |