|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Algorithm | R2-score | MSE | MAE | RMSE |
| Linear Regression | -153.99 | 0.0187 | 0.1069 | 0.1367 |
| Ridge Regression | 0.0032 | 0.0186 | 0.1069 | 0.1365 |
| Lasso Regression | 0.0041 | 0.0186 | 0.1068 | 0.01863 |
| KNN | -0.189 | 0.0222 | 0.112 | 0.149 |
| Decision tree | -0.973 | 0.0377 | 0.133 | 0.194 |
| ElasticNet  Regression | 0.00024 | 0.0186 | 0.1069 | 0.136 |

It seems that Lasso Regression and ElasticNet Regression work better.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Algorithm | Time  (learning curve) | bias | variance | Time  (validation curve) |
| Linear Regression | 1m 33s |  |  | - |
| Ridge Regression | 1m 2s |  |  | 1m 30s |
| Lasso Regression | 2m 56s |  |  | 4m 54s |
| KNN | 6m 42s |  |  | 30m 47s |
| Decision tree | 3m 46s |  |  | 50m 13s |