Appendix

# Glossary

* Normalised: the data is shifted so that its mean is zero and rescaled to move its standard deviation to 1. I am excluding the zero/one categorical columns from this, as it doesn’t make sense to include them.

# Intermediate results

|  |  |  |  |
| --- | --- | --- | --- |
| **Type** | **Hyper-Parameters** | **RMSE** | **MAE** |
| Linear Regression | Default | 4810.33 | 3387.65 |
| Linear Regression | Default (columns: model, year, mileage, fuel type, MPG, engine size) | 4810.35 | 3387.66 |
| Linear Regression | Default (columns: model, year, mileage, fuel type, MPG, engine size), Normalised | 2376.54 | 1706.78 |
|  |  |  |  |

# Implementation Details

For the linear regression I am excluding tax and transmission type columns and normalising the data. By normalising the data the residuals then jumped into a proper normal distribution (before they were rather significantly more on the negative side). There are still many residuals to the left, giving the histogram a very slight right skew (in picture NormalisedLRResidualPlot.jpg in case the final plot is different).