## Requirements

1. Technical requirements
   1. GitHub repository
   2. Virtual environment with requirements.txt specified
   3. Data file provided
   4. Jupyter notebooks for analysis and model development.
   5. Comments!
2. Analysis of data
   1. correlation between features
   2. correlation between features and target variable
   3. scatter plots: feature vs. feature, feature vs. target
   4. bar charts for features
3. Feature selection and augmentation
   1. Feature selection
   2. Filling missing values
   3. Normalization/standardization
4. Algorithm selection
   1. Custom linear regressor
   2. Sklearn/other regressors
   3. Hyperparameter selection
      1. Grid/Random Search
      2. Cross-validation
5. Results evaluation
   1. Train / test set
   2. RMSE, MSE, MAE
   3. Feature importance

## Resources

Datasets

1. <https://www.kaggle.com/c/house-prices-advanced-regression-techniques/data>
2. <https://www.kaggle.com/c/allstate-claims-severity/data>
3. <https://www.kaggle.com/c/bigquery-geotab-intersection-congestion/data>
4. <https://www.kaggle.com/c/restaurant-revenue-prediction/data>
5. <https://www.kaggle.com/c/new-york-city-taxi-fare-prediction/data>
6. <https://www.kaggle.com/c/caterpillar-tube-pricing/data>
7. <https://www.kaggle.com/c/nyc-taxi-trip-duration/data>
8. <https://www.kaggle.com/c/favorita-grocery-sales-forecasting/data>
9. <https://www.kaggle.com/kumarajarshi/life-expectancy-who>
10. <https://www.kaggle.com/anderas/car-consume>
11. <https://www.kaggle.com/hellbuoy/car-price-prediction>
12. <https://www.kaggle.com/uciml/red-wine-quality-cortez-et-al-2009>
13. <https://www.kaggle.com/maajdl/yeh-concret-data>
14. <https://www.kaggle.com/mirichoi0218/insurance>
15. <https://www.kaggle.com/harlfoxem/housesalesprediction>
16. <https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data>
17. <https://www.kaggle.com/orgesleka/used-cars-database>
18. <https://archive.ics.uci.edu/ml/datasets/Auto+MPG>

or

<https://www.kaggle.com/datasets>

<https://archive.ics.uci.edu/ml/datasets.php>

<https://datasetsearch.research.google.com/>