Regression:-

1# Dataset

* 1. Name: **Housing Price Prediction Data**
  2. Total number of Samples: 50K
  3. Training samples: 40K
  4. Testing samples: 10K

2# Implementation

2.1 Feature Extracted: 1 feature we used on it dummy-encoding and add new column to calc the age of house based on the building year.

2.2 Dimension of resulted features: N\_Suburb and N\_Urban were result from dummy-encoding.

In Linear Regression:

1. data has been scaled to raise up the accuracy of the model, by using StandardScaler().

2. used Cross Validation to utilize the dataset as possible we can, the CV-Fold = 10, the training ratio is 0.8.

Result:

In K-NN Regressor

1. data has been scaled to raise up the accuracy of the model, by using MinMaxScaler().

2. used GridSearchCV to get the optimum hyperparameter which in this case 49, the training ratio is 0.8.

Result:

Classification:-

1# Dataset

* 1. Name: **Traffic Sign Recognition**
  2. Total number of Samples: 226 Images
  3. Training samples: 168 Images
  4. Testing samples: 58 Images

2# Implementation