**PROBLEM STATEMENT AND OBJECTIVES**

To determine the factors that play an important role in determining the housing price given in Boston dataset and to perform different regression based techniques to find out the best model along with its hyper parameters, if any, for the given dataset based on R2 metric along with some visualization. The techniques performed on the dataset are:

* Feature selection algorithms:
  + Lasso Regression
  + Ridge Regression
* Predictive Regression Models:
  + Linear Regression
  + Support Vector Regression
  + K Nearest Neighbors Regression
  + Random Forest Regression
  + XGBoost Regression
* 10 Fold Cross Validation
* Hyperparameter Tuning
  + Randomized Grid Search