# Predicting House Prices Using School Data

CAPSTONE PROJECT

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# Problem Statement

- In recent few years Austin has been a booming market for real estate. This intrigued me to study the impact of various features of school to estimate the housing prices.

- This perspective of estimating house price using is essential factors to whom who are planning to purchase a house and looking to buy a house in a considering various school features

# Solution

- There are 5 major step in the development of a machine learning life cycle:
  - Defining the problem
  - Acquiring and exploring  the data
  - Modeling the dataset
  - Interpreting the model
  - Implementation and maintenance

# Solution..(Cont.)

- The dataset for this project is gathered from Kaggle
- The dataset used is Austin, TX House Listings
- I will be using the following machine learning algorithms with skicit learn for this project :

  - Linear

  - Ridge Regression

  - Lasso Regression

# Finding

- With the help of this project we can understand and predict house price
- The main features the were found to affect and help in our modelling are:
  - average school distance
  - average school rating
  - average school size

# Conclusion and Future Recommendation

- We observe that if feasible to predict the price of a housing using information such as average school distance, school rating and average school size.

- We can further experiment with other machine learning algorithm such as elasticsearch, etc. and evaluate the model performance

# Thank You