House Price Prediction

Kaggle (Knowledge) Competition

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Introduction

Ames is a city in Story County, **Iowa, United States,** located approximately 30 miles (48 km) north of Des Moines in central Iowa. It is best known as the home of Iowa State University (ISU), with leading agriculture, design, engineering, veterinary medicine colleges and also have National Laboratory of United States Department of Energy. Being home for various students and professional, population of Ames is increasing and so is the demand for houses to stay. The professionals are more interested in buying houses as these can be used to stay without paying rent or as an investment, so they can have another source or earning in form of rent. Buying a dream house is goal for many people like me. There are lot of factors included in selecting the house like how many rooms, what location, amenities, proximity for basic needs, transport, schools, medical services, etc.

Business Problem

Objective of this study project is to predict the best price based on various factors like size of the house, location, amenities, services, age of house, etc. This study can be best done with combination Data Analysis (Exploratory Data Analysis) and multiple Machine Learning Techniques like advanced regression techniques like Random Forest and Gradient boosting.

Target Audience of this Project

This project will be useful for any individual for finding his or her dream house in Ames, Iowa, United States.

Data

Data used in this project is compiled by Dean De Cock for use in data science education. This dataset consists of some of following data:

- Sale Price
- No. of bedrooms
- House Style
- Quality of house
- Neighborhood
- Year Built
- Basement type
- Sale Condition, etc.