## Real Estate Price

# Production Module

## Ames, Iowa

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# Real Estate Value

## Location & Type

- Zip Code
- Zoning
- Street Type
- Garage & Storage

## Condition

- Year Built
- Remodeling/ Add
- Quality-Appliances

## Size

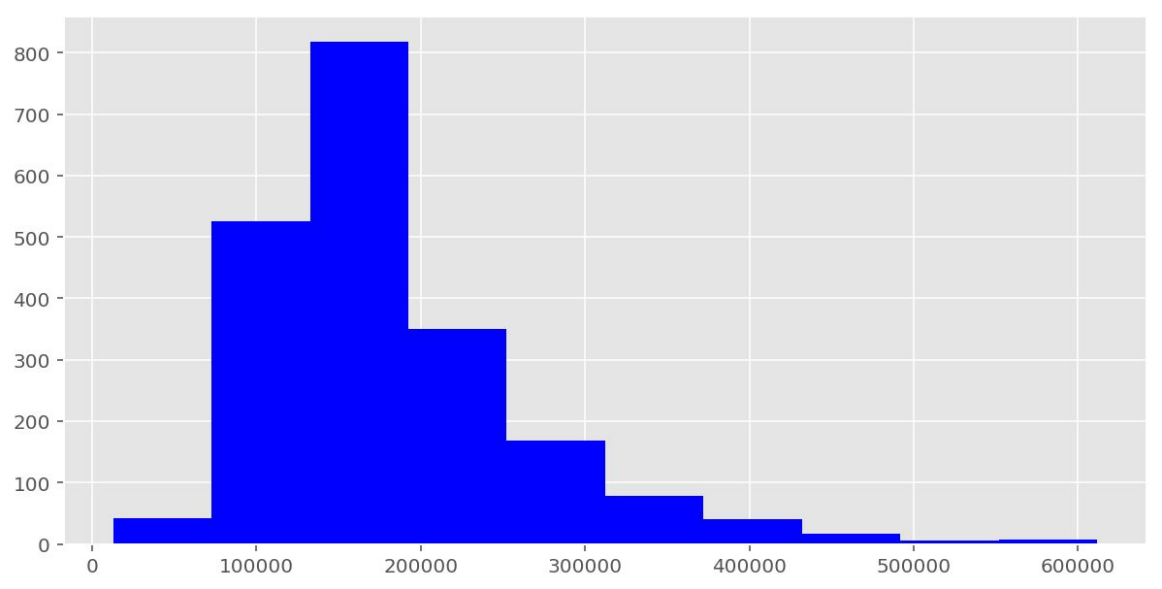
- No of bedrooms
- No of bathrooms
- Basement
- Living area SF

# Data that we used:

2051 Real Estate for modeling

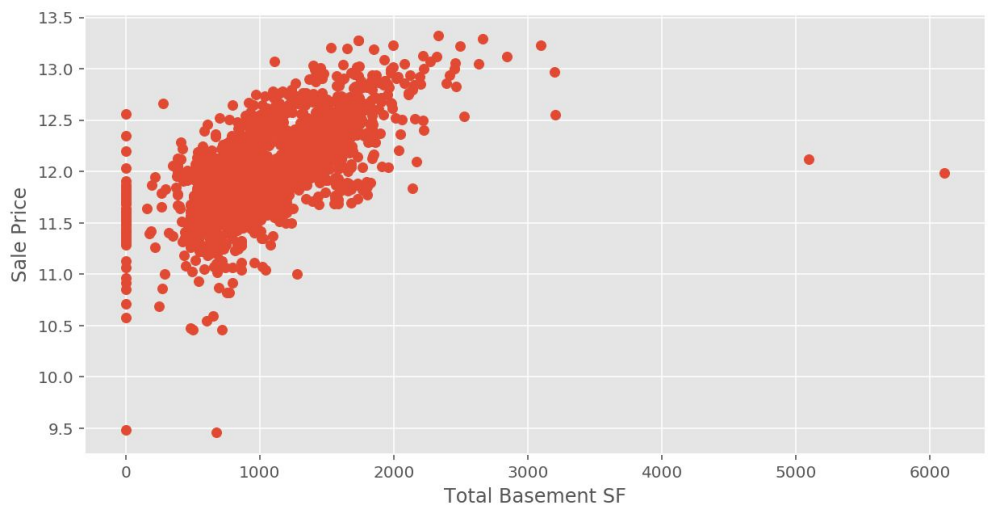
879 Real Estate for testing our modul

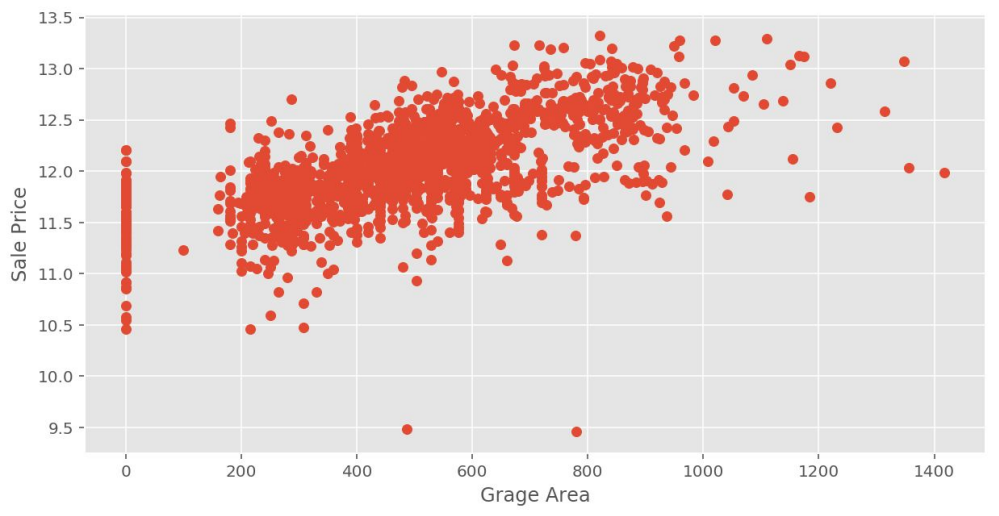
80 Features



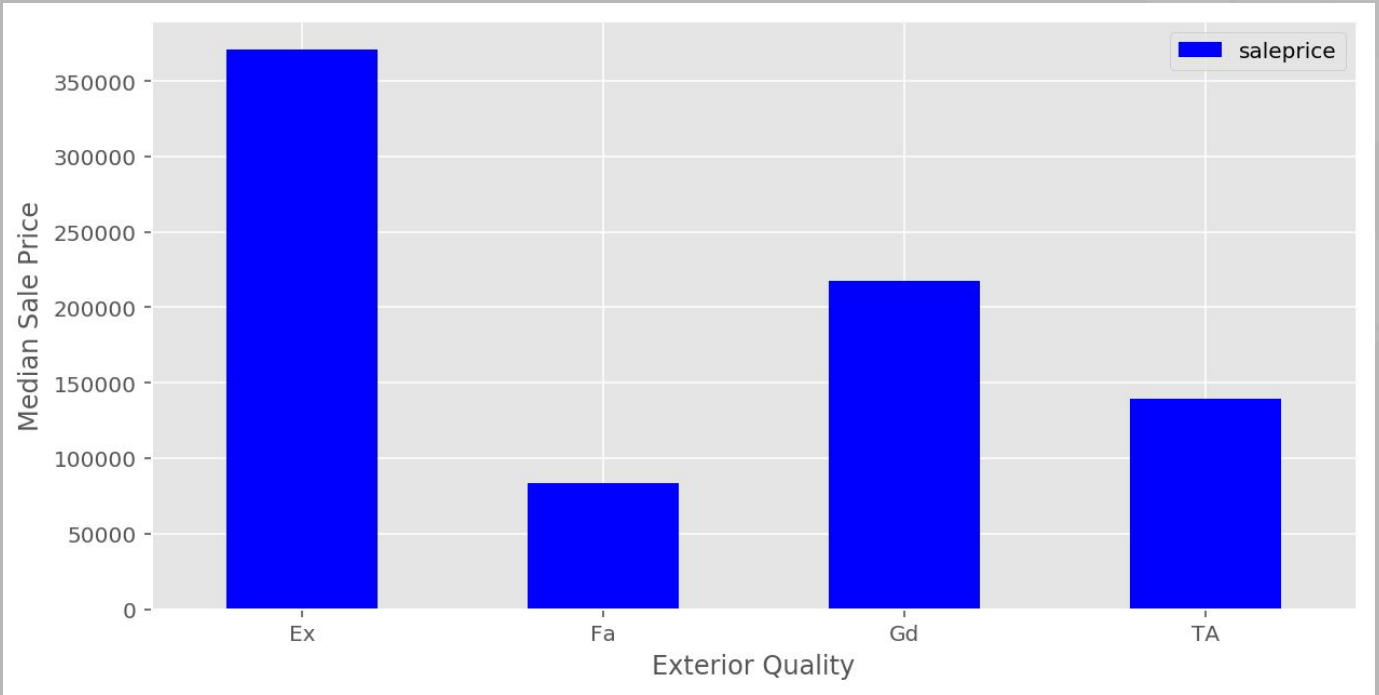

| | |
|---|---|
| count | 2051.000000 |
| mean | 181469.701609 |
| std | 79258.659352 |
| min | 12789.000000 |
| 25% | 129825.000000 |
| 50% | 162500.000000 |
| 75% | 214000.000000 |
| max | 611657.000000 |

# Correlation Between Price & Features



# Exterior Quality of the Real Estates



Price prediction for Real Estates at Ames, Iowa

EDA- Features vidualizatize

Testing our modul with 879 Real estate

2930 Real Estate Sales Records

Selecting & building the right model for our project (2051 RE)

# Technical Approach:

- Data cleaning (checked the missing values | data types ...)
- Understanding the data  ( Features , vidualization ...)
- Identify and Selecting Features which has most effect on the price
- Feature Engineering ( Preparing the data for analysis using dummies... )
- Model with data (linear regression, Lasso, Ridge)
- Evaluate models
- Select the best model
- Test the model with our test data
- Present the final model

# Questions?

Prediction with 83% accuracy