AMES Housing Analysis

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Objective







TO ANALYSE THE AMES HOUSING DATASET FROM THE AMES ACCESSOR'S OFFICE CONTAINING INFORMATION OF RESIDENTIAL PROPERTIES SOLD IN AMES (IOWA) FROM 2006 TO 2010

TO DEVELOP A REGRESSION MODEL TO PREDICT THE SALE PRICE OF HOUSES

TO PROVIDE RECOMMENDATION WITH INSIGHTS FOR HOMEOWNERS ON WHAT HOME IMPROVEMENT WHICH WILL IMPROVE HOUSING PRICE

Introduction

Analyzed historical housing sales data in Ames, Iowa



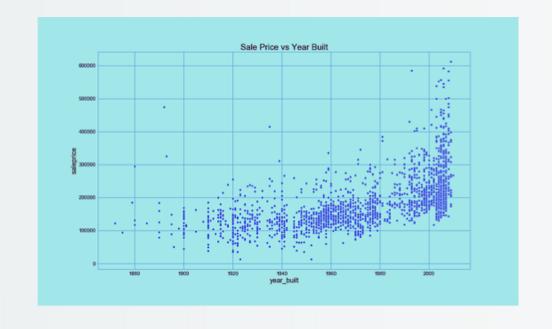
2,051 transactions between 2006 and 2010



Prices range from USD 12,789 to USD 611,657

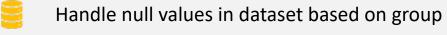


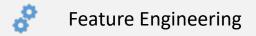
28 neighbourhoods

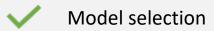


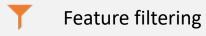
Process











Train model and score

Validate with Kaggle test set

Insights from our model

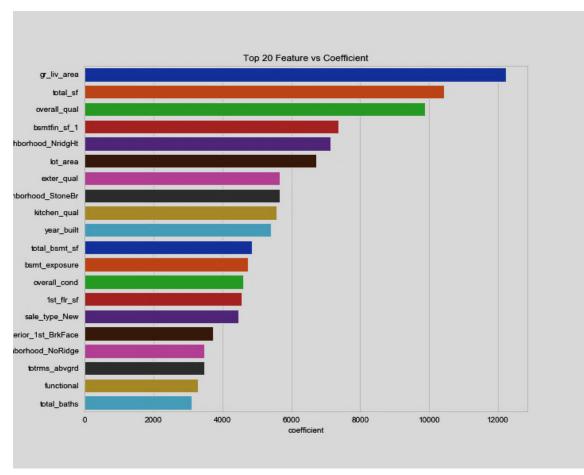


Valuable features to increase housing pricing

Total Surface Area

Overall quality of house

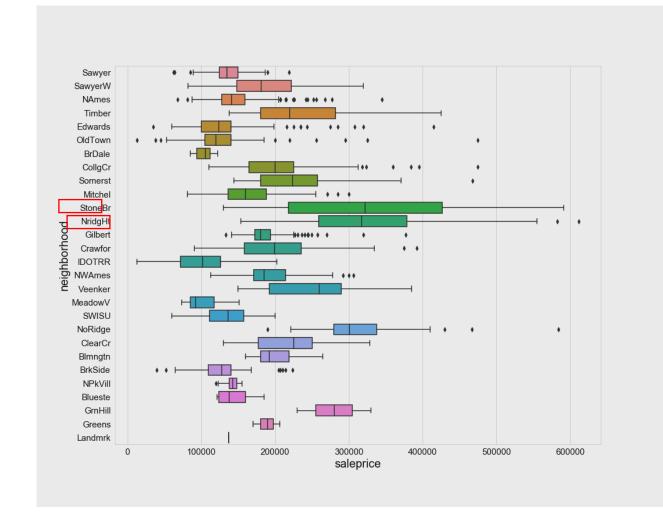
Year Built of housing

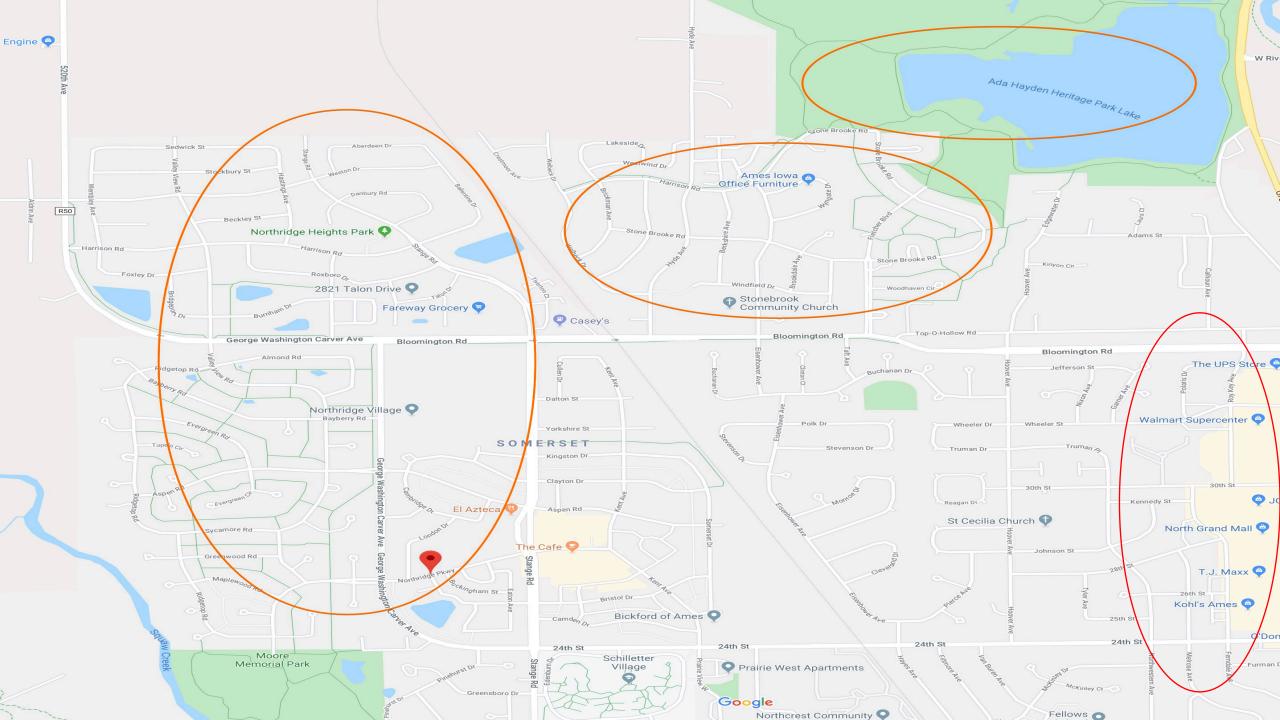


Prime Neighbourhood

North Ridge Heights

Stone Brook





Recommendations

New Property

- Surface Area
- Neighborhood

Existing Property

- Housing Condition
- Housing Quality

