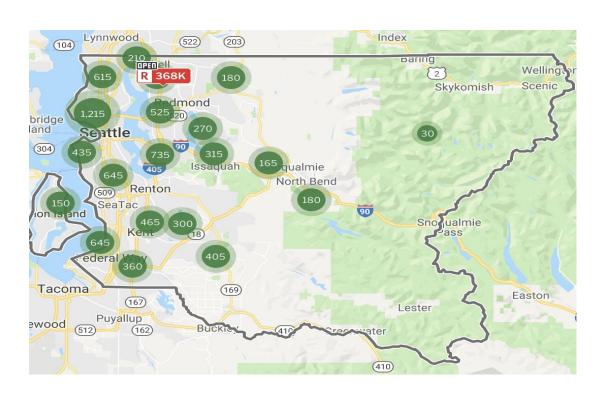
PREDICTING HOUSE PRICES IN KING COUNTY



OBJECTIVE

STREAMLINE YOUR HOUSE SEARCH BASED ON LOCATION AND BUDGET



DATA COLLECTION

realtor.com[®]

Scraped features related to the type of house like bedrooms, bathrooms, sqft-living ,lot area , School rating, View etc



Scraped features for median income, commute time, median age by Zip Code of the house

TOOLS

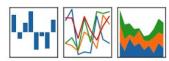














METHODOLOGY

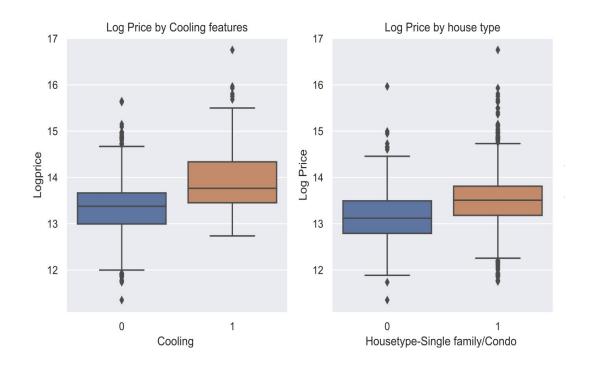
Data Cleaning and Feature Engineering

Model Building

Select best model and train it with cross-validation

Test model and report results

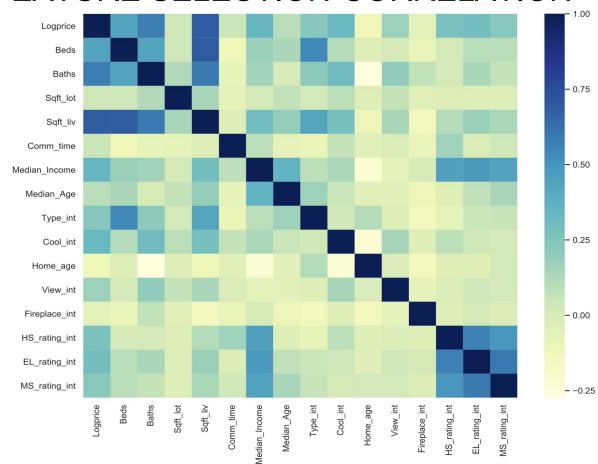
EDA-CATEGORICAL FEATURES



EDA-CATEGORICAL FEATURES



FEATURE SELECTION-CORRELATION

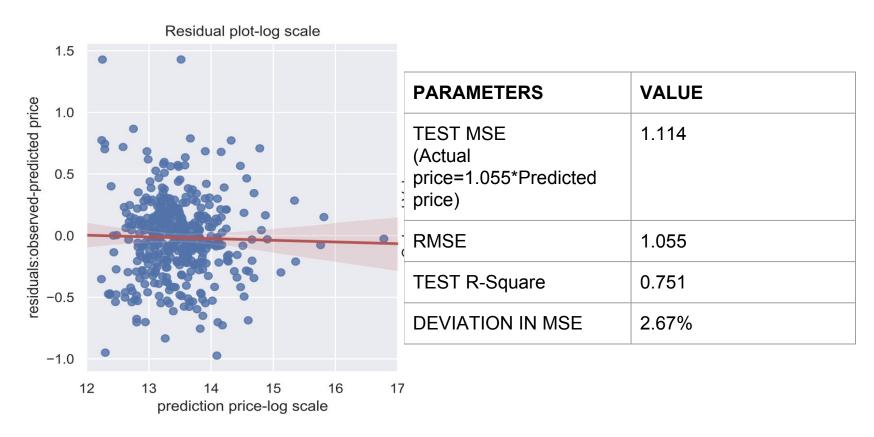


RESULTS

FINAL MODEL: LASSO REGULARIZATION,3-FOLD CV, STANDARD SCALER, 2ND DEGREE POLYNOMIAL, ALPHA=1e⁽⁻⁵⁾



RESULTS



FUTURE WORK

Add more features like crime data by Zip-code, Condition of house, Use Zip-code as a feature Categorize features by Type Condo/ Townhouse/ Single-Family/ Apartment more effectively Get more data for houses with prices between 2 million-20 million

Better imputation of missing data

THANK YOU!

FEATURE ENGINEERING

