King's County Sale Price Prediction

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How To Increase ROI for Houses

Accurate linear regression models

House modifications

Methodology

- 2014-2015 house sales in King's County, WA
  - 21k rows of data
- Multivariate Linear Regression
  - Categorical Variables - One-hot encoding
  - Continuous Variables - Log-transformations,
  - K-means clustering

Predictions- Square footage of house

True vs Predicted Sale Price of Houses

Predictions- Square footage above ground

True vs Predicted Sale Price of Houses

Findings

Square footage - above

Location - two clusters

Condition

Bathrooms

Recommendations

- Square footage above ground
- Bathrooms
- Condition

Future Work

- Variance in sale price by location
- Bigger dataset

THANK YOU