House Flipping Analysis for DreamFlip Ventures



Introduction

DreamFlip Ventures aims to achieve success and high return on investment (ROI) in the northwestern county's real estate market.

By utilizing a statistical model for property acquisitions, they strive to make informed decisions that maximize profitability and ensure a successful house flipping venture.

Project Goals

Identify the best location for real estate investment with high potential

Determine the optimal timing for property acquisitions

Identify the most profitable property types or characteristic with high ROI

DataSet

Uses Data from King County House Sales Dataset

19K out of 21.5k records used

15 out of 38 columns used

Methods

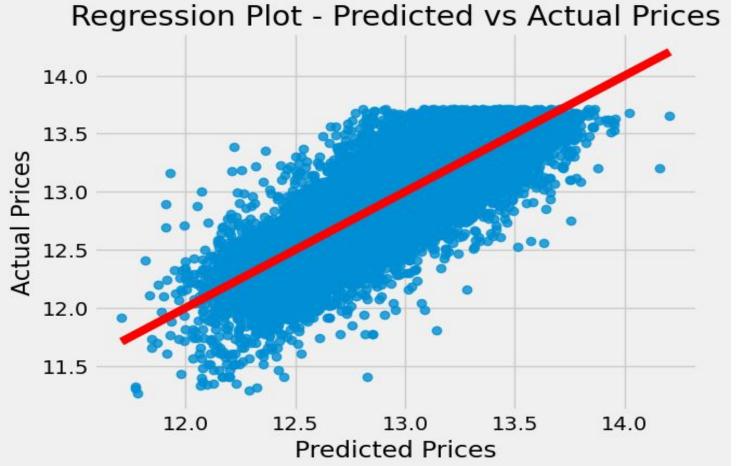
- Data collection and preparation
- Data analysis using Linear regression
- Comparative analysis to identify patterns and trends.
 - Actionable recommendation generation based on findings.

Modeling

The analysis utilizes multiple linear regression to understand the relationship between predictors and property prices.

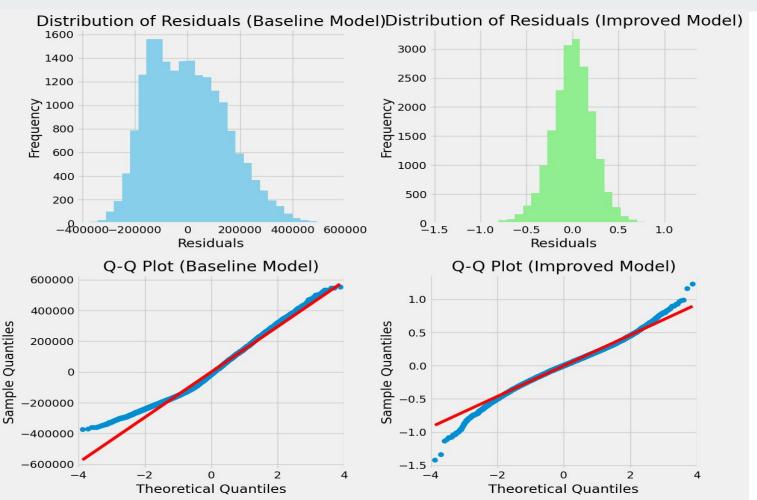
Factors such as location and property condition are examined to identify key drivers of property value.

Model



The prices are positively correlated proving our model performan ce

Models Performance



More
 normally
 distributed
 Correlates
 with better
 performance

Regression Result

0.0002

4.63e-06

11.378

45.264

0.000

0.000

0.032

0.000

0.046

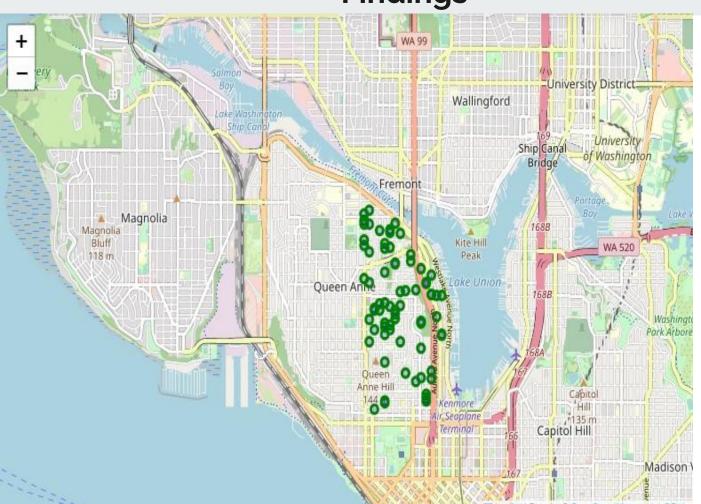
0.000

bathrooms

sqft_living

	391	0.0002	4.03C 00	75.207	0.000	0.000	0.000
	sqft_lot	7.099e-07	4.87e-08	14.568	0.000	6.14e-07	8.05e-07
	floors	0.0553	0.004	13.586	0.000	0.047	0.063
	waterfront	0.3104	0.039	8.048	0.000	0.235	0.386
	view	0.0598	0.003	19.040	0.000	0.054	0.066
	yr_built	-0.0031	9.34e-05	-33.017	0.000	-0.003	-0.003
Where?	yr_renovated	1.782e-05	5.25e-06	3.393	0.001	7.52e-06	2.81e-05
Wilcie.	lat	1.3475	0.013	103.318	0.000	1.322	1.373
	long	0.0322	0.014	2.232	0.026	0.004	0.060
	waterfront_Duwamish	-0.2550	0.014	-17.622	0.000	-0.283	-0.227
	waterfront_Elliott Bay	-0.0255	0.010	-2.429	0.015	-0.046	-0.005
	<pre>waterfront_Lake Sammamish</pre>	0.1090	0.009	12.723	0.000	0.092	0.126
What?	waterfront_Lake Union	0.2559	0.027	9.456	0.000	0.203	0.309
	waterfront_Lake Washington	-0.1871	0.012	-15.131	0.000	-0.211	-0.163
	waterfront Puget Sound	-0.0477	0.012	-3.876	0.000	-0.072	-0.024
	season_Spring	0.0465	0.005	10.068	0.000	0.037	0.056
	season_Summer	0.0078	0.005	1.681	0.093	-0.001	0.017
M/ban2	season_Winter	0.0005	0.005	0.094	0.925	-0.010	0.011
When?	conditīon Fair	-0.1342	0.018	-7.317	0.000	-0.170	-0.098
	condition Good	0.0525	0.004	12.517	0.000	0.044	0.061
	condition Poor	-0.1958	0.044	-4.441	0.000	-0.282	-0.109
	condition Very Good	0.1061	0.007	15.441	0.000	0.093	0.120
	grade 11 Excellent	0.0508	0.046	1.103	0.270	-0.039	0.141
	grade 3 Poor	-0.1984	0.232	-0.856	0.392	-0.653	0.256
	grade 4 Low	-0.7895	0.047	-16.769	0.000	-0.882	-0.697
	grade 5 Fair	-0.7010	0.021	-33.341	0.000	-0.742	-0.660
	grade 6 Low Average	-0.5457	0.015	-36.111	0.000	-0.575	-0.516
	grade 7 Average	-0.3585	0.013	-26.606	0.000	-0.385	-0.332
	grade 8 Good	-0.1978	0.013	-15.400	0.000	-0.223	-0.173
	grade 9 Better	-0.0606	0.013	-4.612	0.000	-0.086	-0.035
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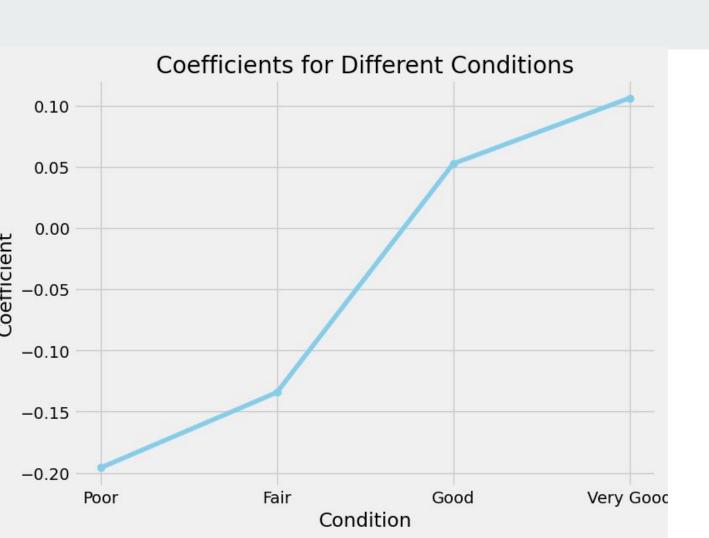
Findings



Where

Waterfronts increases price by 30%

Lake union has the most with 25% increase



What?

Poor condition has

 20% while Very
 Good has 10%
 increase in price

 Adding bathrooms increases house price by 4%



When

 Spring has the highest price rise which is 5%

 Winter has almost 0 significance in price rising

Recommendations

Where

Buy Houses near Lake Union with a nice view

♦ What

 Buy houses with poor conditions and grades for lower prices and renovate them by adding 1 or 2 bathrooms to increase grade and condition hence high ROI

When

 Sell houses on Spring where price increases by 5% and buy them on winter with no increase in price at that time

Conclusion







WATERFRONT (LAKE UNION)

POOR GRADE, NEEDS REPAIR

ADD SOME BATHROOMS

THANK YOU