

Help Homeowners To Increase Their Home Values

BY:

Mays Alkhwitar



Overview

- **Business Problem**
- **Data Understanding**
- **Modeling**
- **Results**
- **Conclusion and Recommendations**

Business Problem



Problem




Help homeowners to increase their home values.



Solution

Model to predict the increase amount

Data

-  21,597 homes in King County, Oregon
-  sold in 2014-2015
-  Included information homes features like size, numbers of rooms, bathrooms, homes grades, conditions and more.

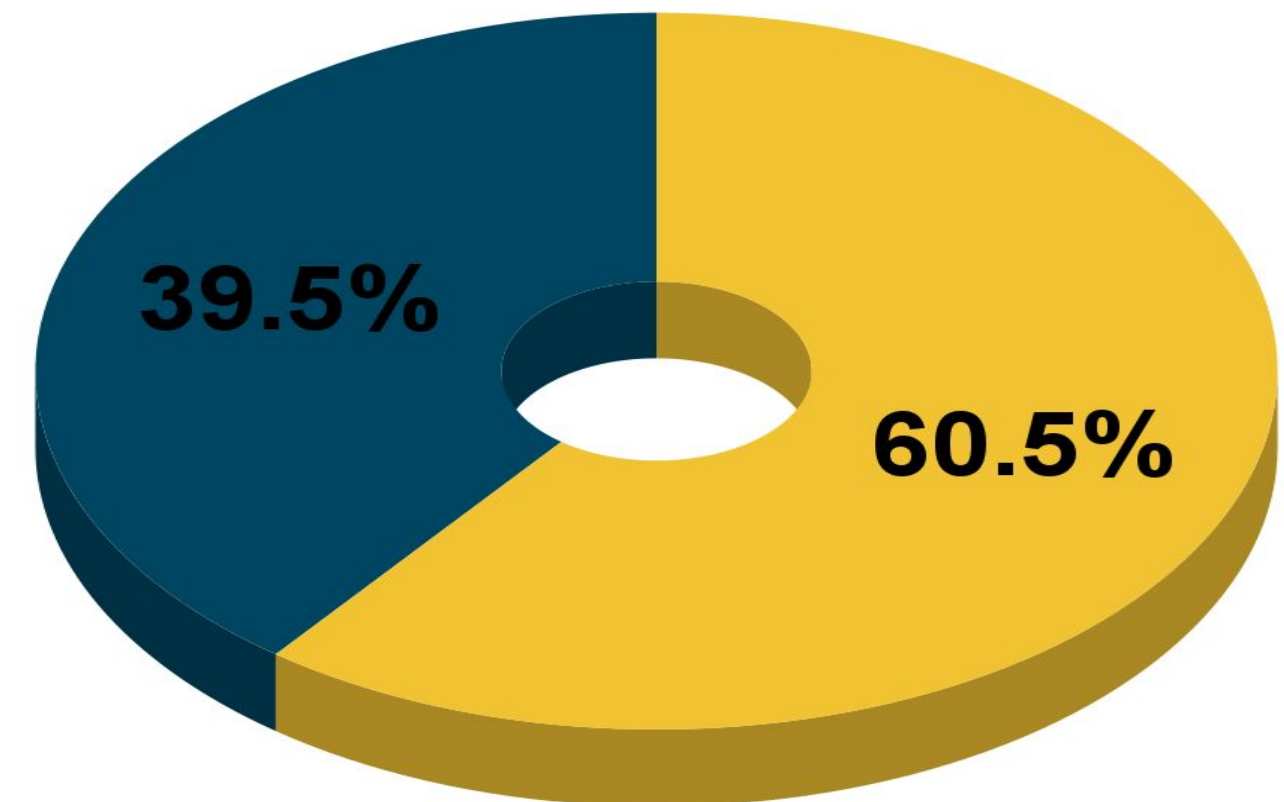
Modeling

Multiple linear regression model

Included 18 features

Explained 60.5 % of the variance

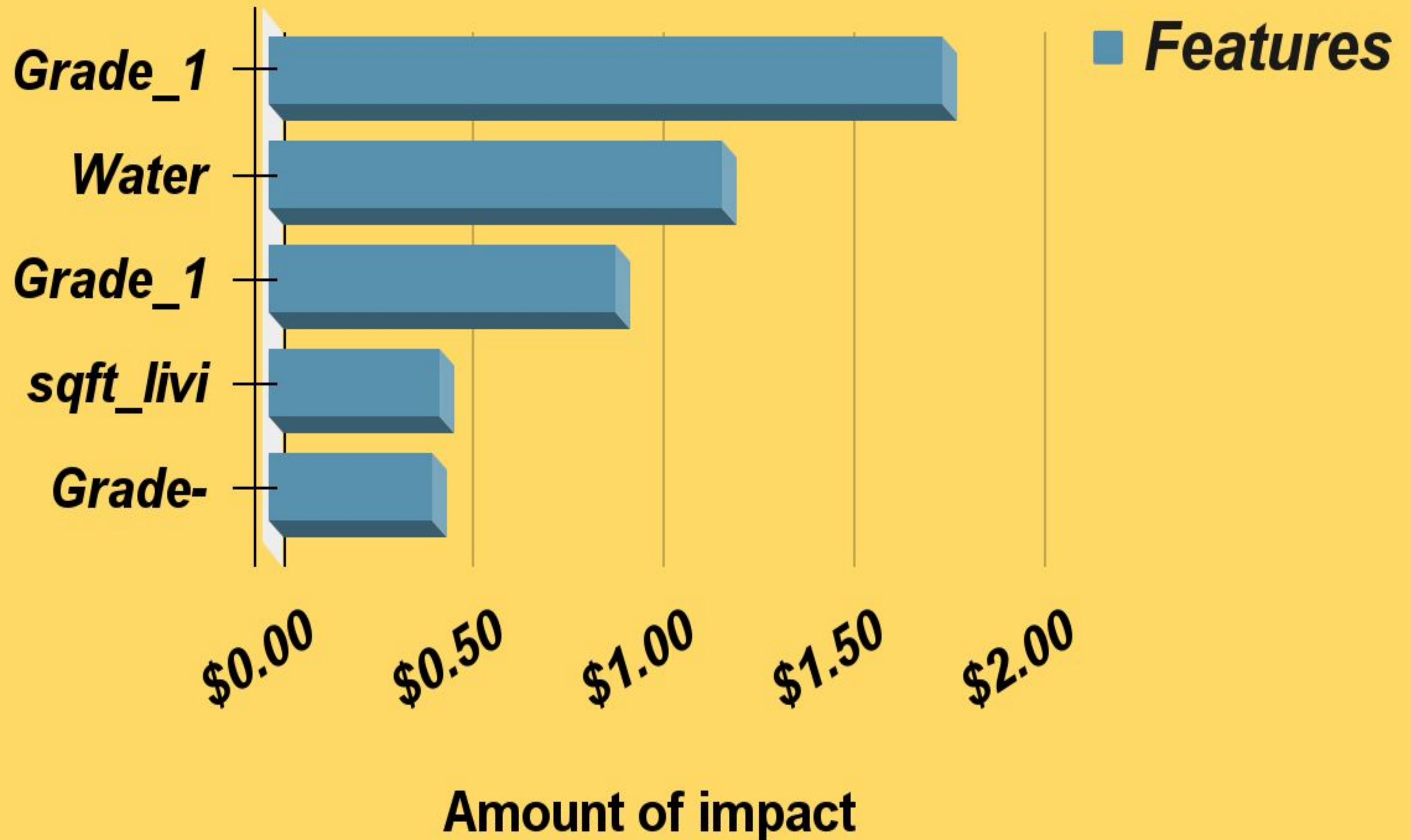
Final Model



Result

For 1% unit
increase in
feature

Houses prices based on houses features



Conclusion & Recommendations

1.

Homes Grade

Grade-13 Mansion
price increases 380%

Grade_12 Luxury
price increases around
147%.

Grade_11 Excellen
price increases around 54 %

2.

Waterfront houses

Price increases around
225 %

3.

Square Footage of living Space

Add livable Square Footage
price increases around 18%.

Expansion the main floor
price increases around 33%

Expansion Second floor
price increases around 22 %



Thank you

You can find me at :

- mays802004@gmail.com
- <https://github.com/maysasaad>