# **REAL ESTATE**

The Effect of the Quality and Above Ground Living Area on Sale Price

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## WHICH WOULD YOU PREFER?





# **Problem Statement**

What effect does overall quality and above ground living space have on the sale price of a home?



## **DEFINITIONS**



#### **How Will Success be Evaluated?**

Success will be evaluated on successfully finding the correlation between our **target** (the sale price of a home) and our **features** (above ground living area, and the overall quality of a home).

## Some more fancy definitions...

## **Target**

The sale price.

#### **Feature**

What we use to predict the sale price.

## **DATA ANALYSIS - A SUPER HIGH LEVEL OVERVIEW**

#### **Data Intake**

We took a large dataset with 70 columns of different features relating to houses in Ames, Iowa.

## **Data Cleaning**

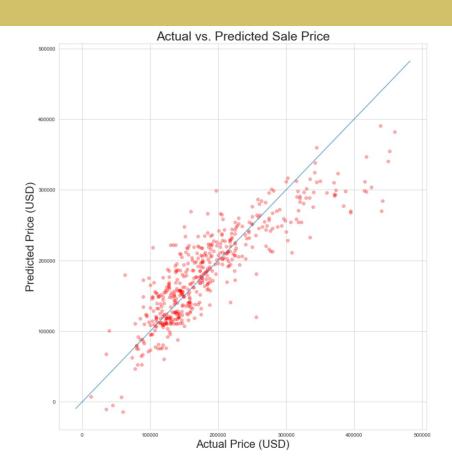
We cleaned the data in order to build our model.

## **Modeling**

We used this data to make (and will continue to improve) a model that we then used to predict home prices.







#### **Overall Home Quality**

All else constant, for each unit increase in the overall quality of a home, there was ~\$33,000 increase.









#### So What?

This information is crucial to clients like yourself (real estate agents) looking to maximize return on a home sale.

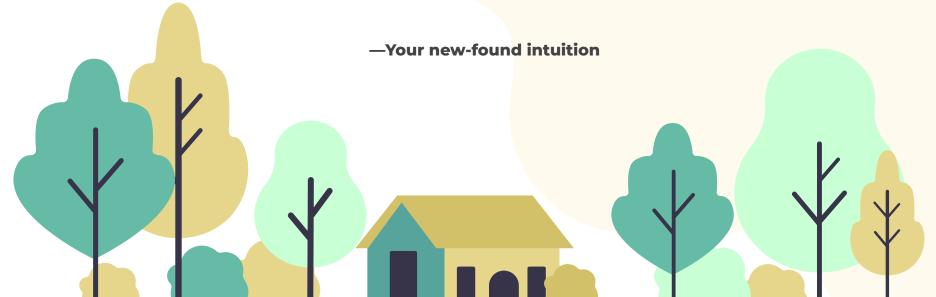
Knowing what effect these variables have on the price of a home will allow you to help your clients sell their homes for maximum profit, advising them on where to allocate resources for a successful sell (renovating the kitchen, adding on another room, etc.).

This will increase the value of the home, the speed of sale, and as a result will increase the funds you retain from the transaction as their agent.



# **CONTENT PLAN**

"Capitalize on overall home quality while selling a home! Suggest a new tile job for the kitchen backsplash, new hardwood floors, etc. when your client asks for tips on maximizing profit and quickening sale time."



## **RECOMMENDATIONS**









Combine living area and home quality for maximum return



Focus on quality



Dig deeper into data



## **RESOURCES**

#### **SOURCES**

- http://jse.amstat.org/v19n3/decock/DataDocumentation.txt
- https://matplotlib.org/stable/api/ as gen/matplotlib.pyplot.title.html
- ◆ Project One Readme for structure reference
- https://avitarassociates.com/Portals/0/PDF/UnderstandingYourPropertyRecordCard.pdf
- https://git.generalassemb.ly/DSIR-0124/lesson-feature-engineering/blob/master/solution-code/solution-code.ipynb
- https://www.kaggle.com/c/dsir-0124-project-2-regression-challenge/overview

# **THANKS**

Does anyone have any questions?

Email: starr.sabrina.e@gmail.com Slack: @SabrinaStarr

All questions welcome:)

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