# Predicting Home Prices

In Ames, Iowa using a regression model



#### **TABLE OF CONTENTS**



What problem am I trying to solve and why?

**03**Findings

What do the data show?

02

#### **Analysis Description**

How did we solve the problem?

**04**Recommendations

How can our model help?



# **Problem Statement**

The purpose of this analysis is to understand the factors that influence housing prices in Ames, lowa and to develop a model that can accurately predict the value of a given property based on its features.

This analysis can be used by developers to understand the market trends and make decisions about development in the area.



# Methodology

## **Data Preparation**

First we needed to make the data usable

#### Building

We built several models and selected the best for our data.

#### **Exploration**

What do have and how can we use it?

#### **Evaluation**

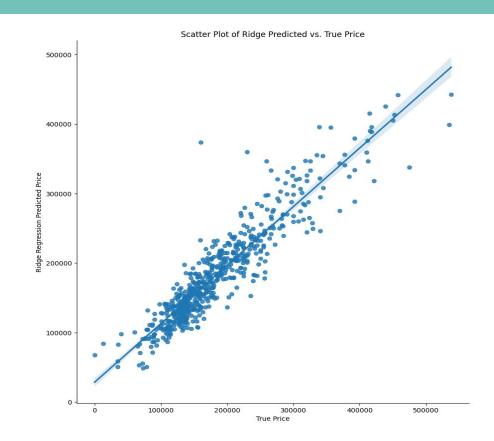
Then we put our model to use

## **Findings**



#### **High Level Rundown**

Goal: Develop a predictive model that can accurately estimate the sale price of a home based on various features of the property

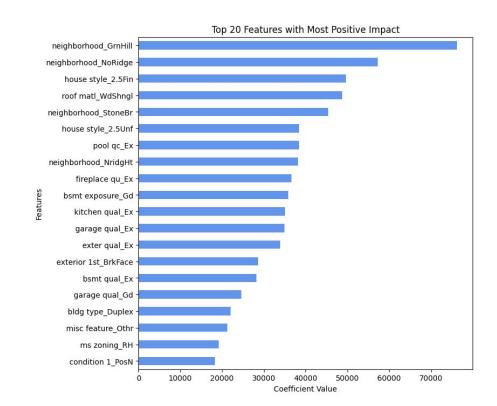


## **Findings**



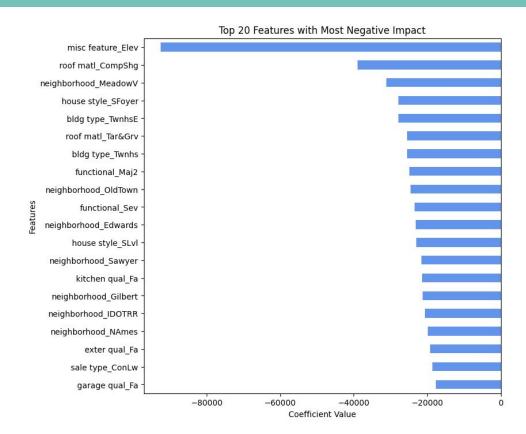
Which features most strongly influence price?

Location, Location... roof type

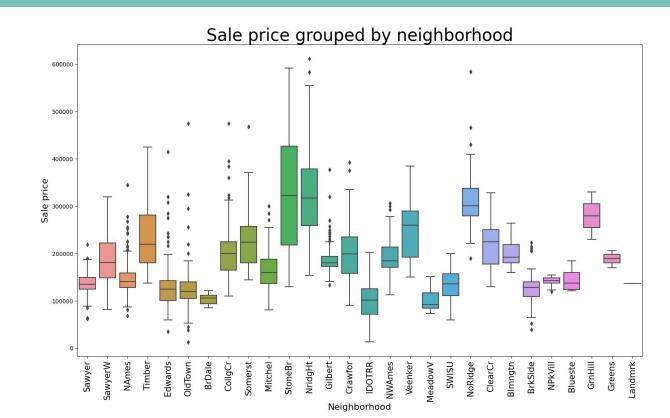


#### **Findings**





Negative Coefficient = negative impact on the predicted outcome variable





**Neighborhood impacts price** 

#### What information can we glean from our model?

# Recommendations

- ◀ If developers want to increase a home's value, they should:
  - Build in the Green Hills, StoneBrook, or Northridge Neighborhoods
  - Build 2.5 Story Homes (2nd level finished)
  - Wood Shingle Roofs
- ◀ Homes that:
  - Have Elevators (Misc. Feature)
  - ◆ Have Composite Shingle Roofs
  - Are in the Meadow Village Neighborhood

Are not competitively priced

Before a developer considers a project in Ames, they should consider these aspects of their build

# Thank you

