


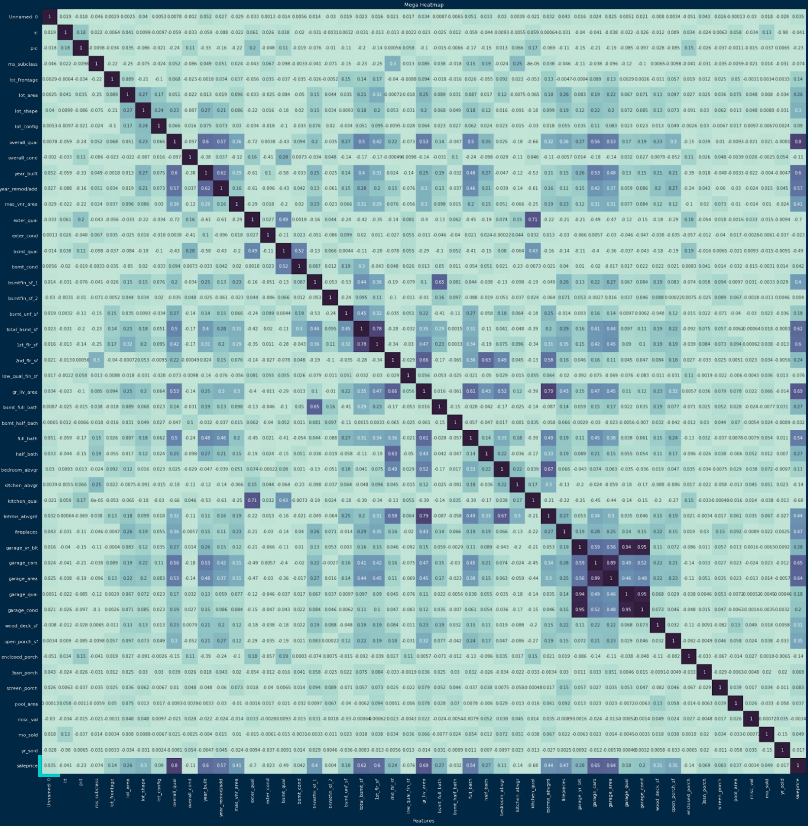
Ames Housing Modeling

Can we find a more concise
model?

The background is a dark blue gradient. It features several thin, vertical white lines of varying lengths. Scattered throughout are small squares in three colors: light blue, pink, and teal. Some squares are solid, while others are outlined. The text is centered and reads:

Problem Statement:
Can we create an efficient
model for predicting housing
prices and productionize it?

MEGA HEATMAP



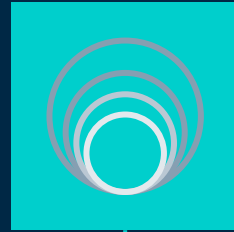
Why?

We all know we
wanted it. Let's get it
out of our systems.



Better Tools

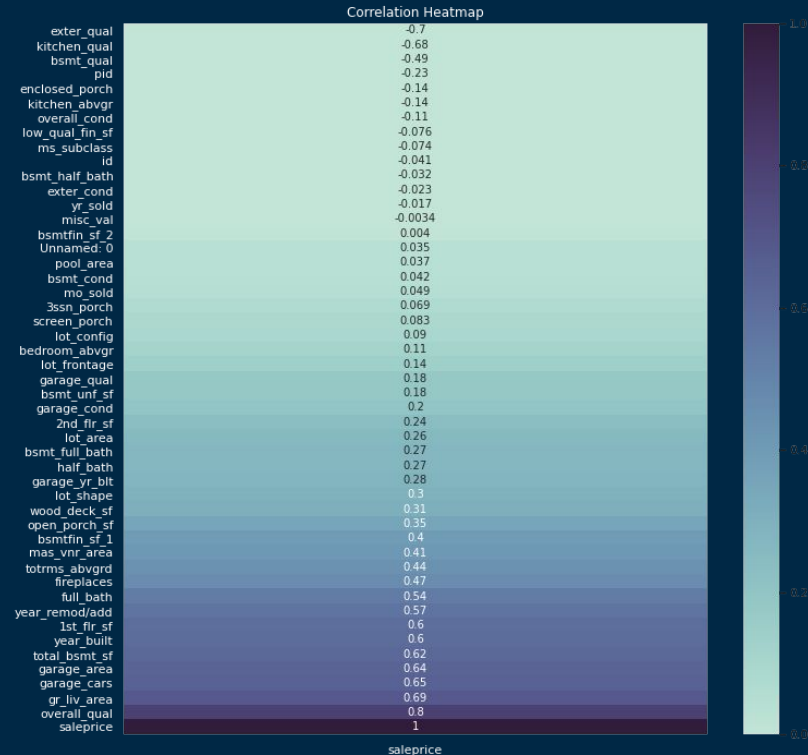
Fortunately There are
better tools in our toolbox



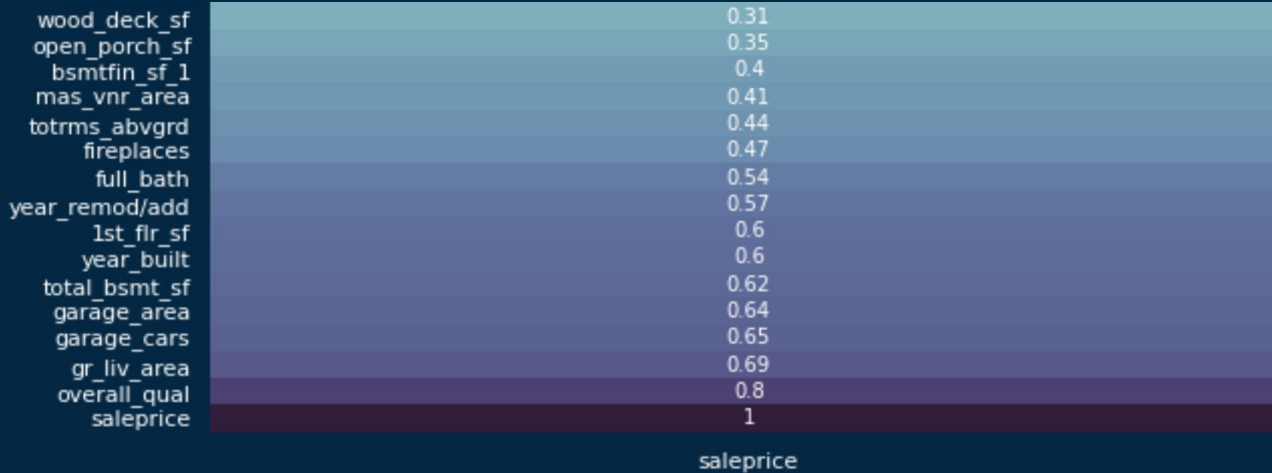
Correlation Heatmap

All features and their correlation level with Sale Price.

1 = Highest corr
0 = Lowest corr



Our top contenders:



Overall Quality

Overall Quality of the house has largest impact on sale price

Above Ground Living Area

Living area in square ft.

Car Garage

Number of cars that can fit in the garage

Confidence Predictors 1st set

Chosen Features:

Garage Quality

Exterior Quality

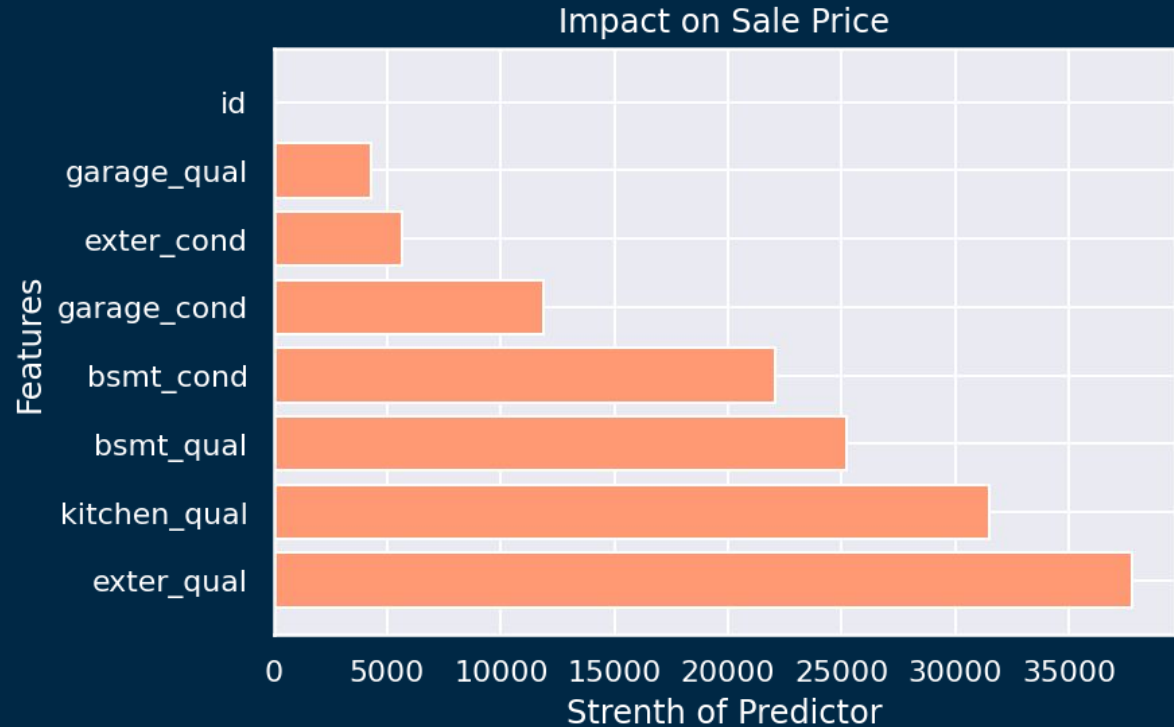
Garage Condition

Basement Condition

Basement Quality

Kitchen Quality

Exterior Quality



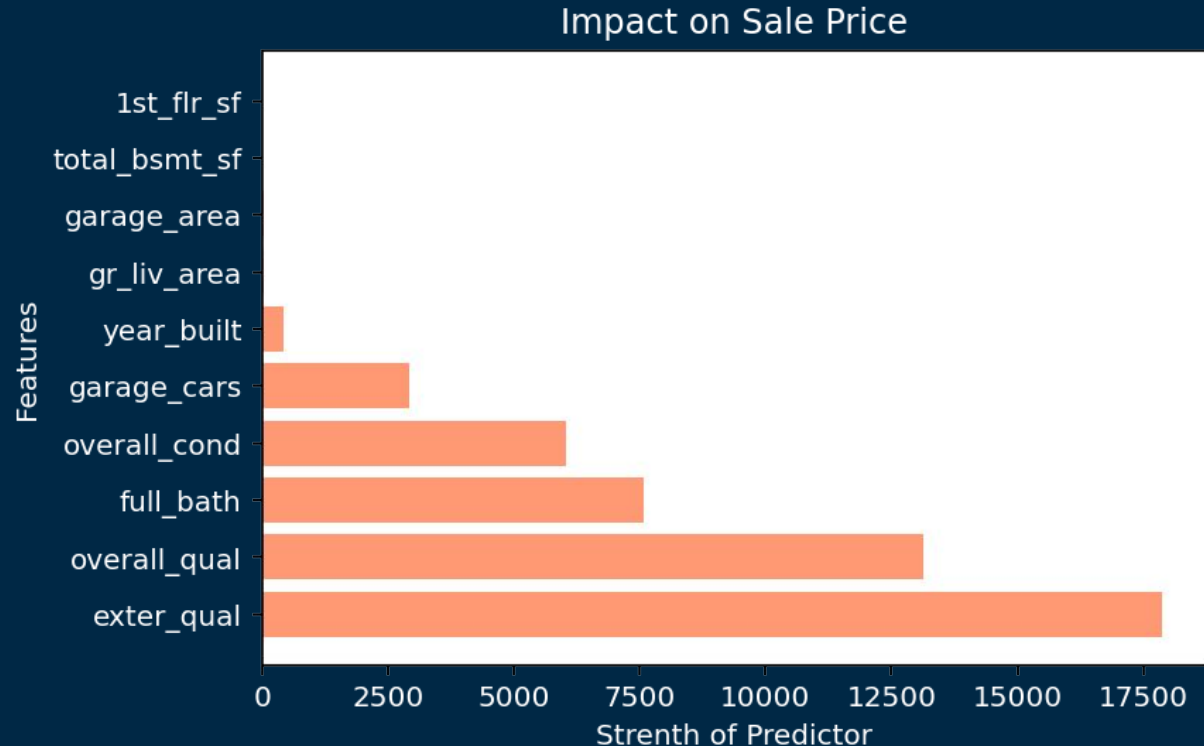
Can we do better?



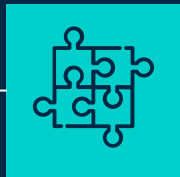
Confidence Predictors 4th set

Chosen Features:

1st Floor sft
Total Basement sft
Garage Area sft
Ground Level area
Basement Year Built
Cars in garage
Overall Condition
Full Bath
Overall Quality
Exterior Quality



Ridge Scores



Qual

0.596

Here you could
describe the topic
of the section



Lot

0.171

Here you could
describe the topic
of the section



Min

0.759

Here you could
describe the topic
of the section



Corr

0.820

Here you could
describe the topic
of the section

Product Process

Step 1

Input Data



Takes housing data and cleans it including removing outliers

Step 2

Run the model



Determines the best metrics to use to determine housing pricing predictions

Step 3

Receive predictions!



Presents predicted material

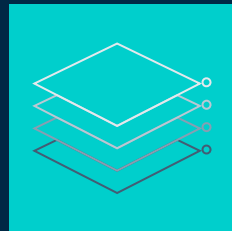
0.020

Using our heatmap helped us find the best correlated data for our model.

0.020

Using our heatmap helped us find the best correlated data for our model.

Ranking



14

Kira Helm



35326....

Conclusions

Is it accurate enough?

Having a test ridge regression score of over 80% is pretty good for this model

More funding needed

To improve and ship product.

Consider Efficiency

I think this score could be improved, but the real question is how efficient we can make it

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THANKS

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Questions?

The image features a central graphic consisting of four concentric circles. The circles are colored in a gradient: the innermost is white, followed by light pink, then orange, and the outermost is a darker pink. Two horizontal lines intersect these circles. The left line is colored teal and pink, with a teal dot on the innermost circle and a pink dot on the second circle. The right line is colored orange and pink, with an orange dot on the third circle and a pink dot on the outermost circle. The background is a dark blue gradient, decorated with various geometric shapes: small teal and orange squares, and white squares of different sizes, scattered across the top and bottom edges.