Ames, lowa Housing:

Data Driven Investment Opportunities

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O1 PROBLEM

PROBLEM STATEMENTS

NEIGHBORHOODS:

Are there specific Neighborhoods that have high potential for house "flipping"?

FEATURES:

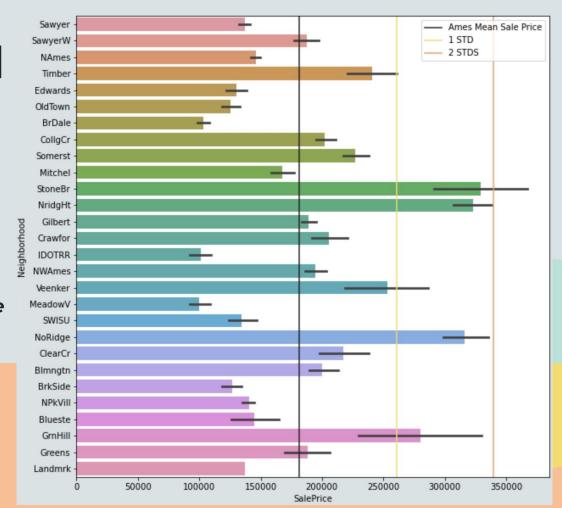
What features correlate to the higher priced homes?

O2 EXPLORATION

EXPLORATION

NEIGHBORHOODS:

- Looking at highest priced homes: 3 neighborhoods are within 1 standard deviation away from the mean
- NridgHt, StoneBr, NoRidge



EXPLORATION

NEIGHBORHOODS

STONE BROOKE

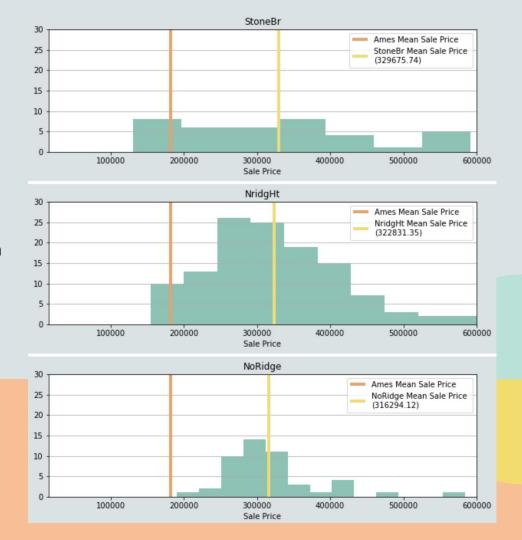
- No outliers
- Highest max values
- Largest standard deviation

NORTHRIDGE HEIGHTS

Most homes sold

NORTH RIDGE

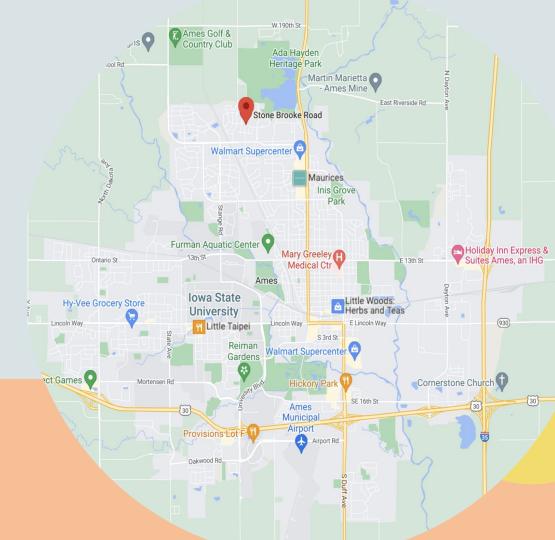
- No homes below mean
- Many outliers



EXPLORATION

STONE BROOKE

- Highest potential growth
 - 52% of homes below neighborhood mean
 - 10% of homes below citywide mean



O3 FEATURES

FEATURES

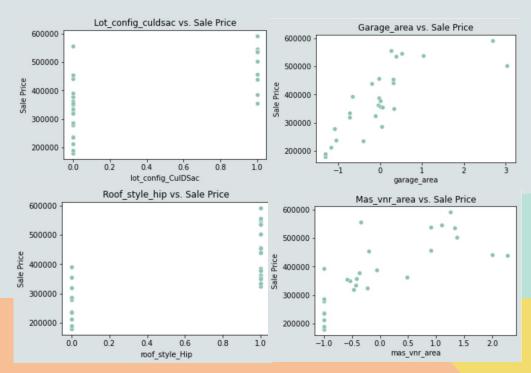
Normalities

 All homes in this neighborhood did not have pools, fences, or alley access

All homes had standard utility connections

FEATURES

- What features correlate with highest selling homes?
 - Garage Area, Year Built
 - Above Ground Living
 Space
 - Location in neighborhood
 - Hip roof style
 - Masonry exterior



O4 MODELING

MODEL

- Does our Lasso model corroborate the select features?
- Positive Effects for the selected features is seen with the coefficients:

0

- Masonry exterior
- Screened porch > enclosed
- o Fireplaces, garage
- Recent Remodeling

	Coef
lot_area	6997.247757
total_bsmt_sf	5147.699827
screen_porch	5016.856131
1st_flr_sf	4966.263220
garage_area	4882.510740
gr_liv_area	4811.607285
totrms_abvgrd	4341.160005
fireplaces	3950.350291
half_bath	3856.764573
garage_cars	3612.144007
mas_vnr_area	3477.641255
full_bath	3442.991288
year_remod/add	3262.798045
year_built	3160.982223

3122.497278
3013.625494
2803.616063
2319.836198
1930.412980
1875.051671
1674.602007
1645.851999
1573.323635
1529.789390
1311.273161
1308.565871
1304.728770
1248.636570

O5 CONCLUSIONS

CONCLUSIONS

- If looking to flip a home as an invest, look to purchase in the Ridge Brooke area.
 - Northridge Heights has potential that can be further examined.
- Total living area and lot size have large factor in resale value though expensive to change.
- External house material has a large impact: use masonry siding for maximum returns
- Adding a garage and fireplace and converting a covered porch to a screen porch will increase value

RESEARCH

- Refine model over different neighborhoods
- Proximity to important features, like a university or major hospital, may increase value
- Research HOA regulations to additional costs and renovation regulations
- Check other areas for large range in differences of home prices for other investment opportunities.

THANK YOU

ANY QUESTIONS?