GA Data Science 1116

Dec. 14, 2020



Ames, Iowa

Home Pricing Analysis



https://unsplash.com/photos/1ddol8rgUH8?utm_source=unsplash&utm_medium=referral&utm_content=creditShareLink

Problem Statement

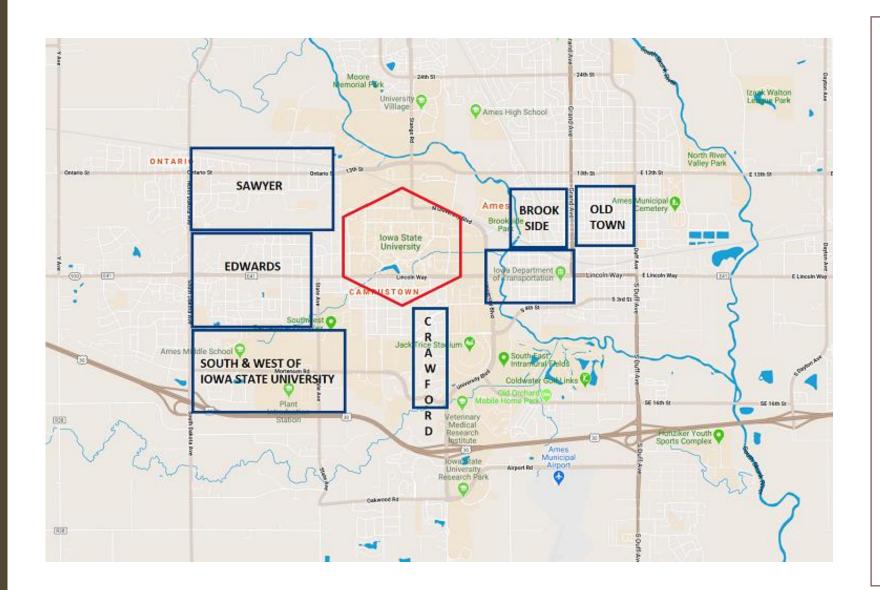


- Home to Iowa State University (33,000 students)

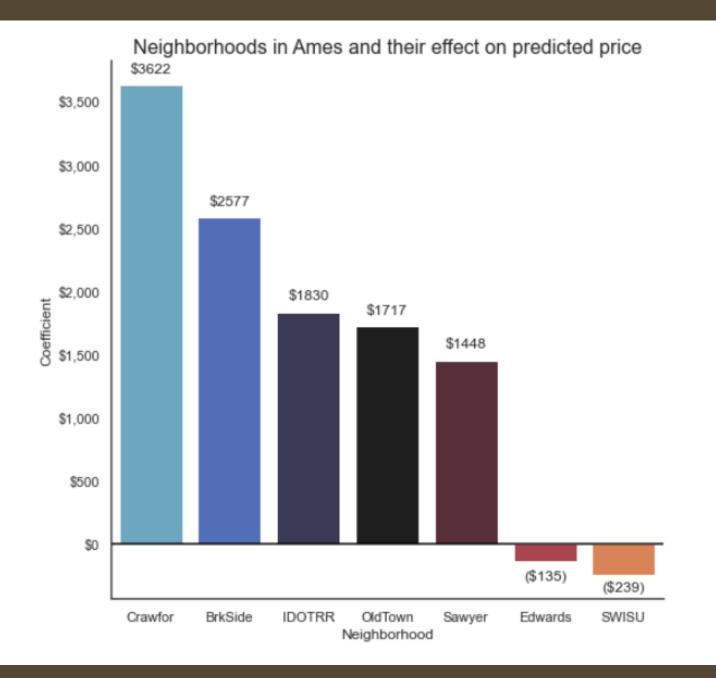
Congratulations on your new job!

 $\mathbf{\hat{m}}$ Null hypothesis \mathbf{H}_0 :

There is a 5% or more premium to home prices in the seven neighborhoods closest to the Iowa State campus



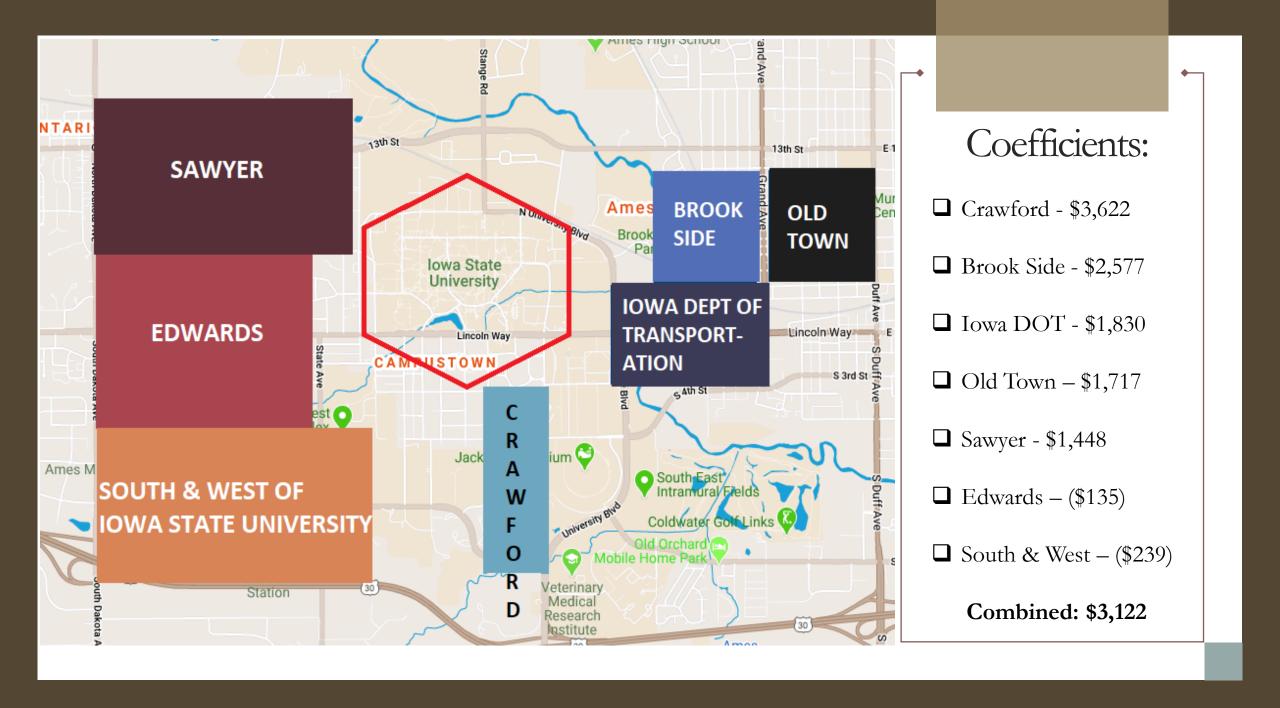
The three most important factors in real estate



Modeling Results

Combined coefficient value for all seven neighborhoods:

\$3,122



Conclusion

There is a 5% or more premium to home prices in the six neighborhoods closest to the Iowa State campus

Average Sale Price (All houses in training set): \$180,995.11

5% = \$9,049.76

Seven closest neighborhoods premium: \$3,122

Reject the null hypothesis

Thank You!



Paul Miller

Questions or comments?



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