Modeling Assigment #3

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### Introduction

To accurately forecast the value of a home, we must find a relevant dataset that contains accurate information of comparable inventory so that we can explore the significant variables of a home which ultimately determine the sale price of the residence. Once we have explored the data set and selected an appropriate sample from the population, our task will be to create both single and multivariate regression models that leverages these key indicators in the data to predict the value of a home given based upon its features. Once we have constructed the models, we will form hypothesis tests at our stated confidence intervals and conduct statistical significance tests upon these models.

In this report, we will use the Ames dataset which is an alternative to the famous Boston housing data to perform exploratory data analysis through variable derivation, validation, selection and visualization to measure the relevance of these indicators as they pertain to the value of the home in terms of a dollar estimate.

### preparing the categorical variables

### Conclusion

### Appendix