

# ISYE 7406 - Homework 2

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## Introduction

## Exploratory Data Analysis

## Methodology

Eight models were created from the data in order to understand the different types of Linear Regressions

### Full Model

A least squares linear model was fitted on all features, excluding *siri*, *density*, *free* as noted above.

### 5 Best Feature Selection

Two models were created by selecting the 5 best features and performing a regression against those. The first model was created by selecting the 5 features with the lowest p-scores in the full model. The second model was selected by performing an exhaustive search over all combinations of 5 features and selecting the combination with the lowest Mallow's Cp score.

### 0.1

## Results

## Conclusion