Module Four Lab: Building a Regression Model

# Author: Jarrod Sims

## Progress 1 - Screen shot pipeline ready to replace classifier with regression model

## Progress 2 - Screen shot performance of model on training and test sets.

## Progress 3 - Analysis

* Compare performance and argue if model is underfitting the training set.

## Progress 4 - Screen shot linear fit

## Submission 5 - Analysis

1. Will more training data improve the fit?
2. Is the model under or over fitting?

## Submission 6 - Explain

1. Did adding age improve the model?
2. Propose an explanation for the results.

## Progress 7 - Scatter graph

1. Scatter graph with cubic model displayed
2. Propose an explanation

## Submission 8 - Explain

1. Does the polynomial fit do better?
2. Where does it fit the best?

## Progress 9 - Screen shot of scatter plot with degree 8 polynomial fit

## Submission 10 - Explain

1. Compare degree 3 and degree 8 fits
2. Is the increase in performance big enough to justify the degree 8 fit?

## Progress 11 - Screen shot of scatter plot with degree 8 Elastic net.

## Submission 12- Explain

1. Compare coefficients for regular and elastic net for degree 8.
2. Which ones have been reduced in elastic net?