|  |
| --- |
| 15.095 Homework #4 |
|  |

# Executive Summary

## **Key Takeaway**: Our model’s estimate a projected annual profit of $33.22-$40.12M, depending on various modeling decisions and techniques.

**Model 1** *(Saturated Linear Regression):*

**Evaluation Estimate:** $40,016,174, **Out-of-sample :** 0.79, **In-sample** : 0.72

**Description**: Our first model was a standard linear regression that included every variable in the training data set. This provides a good introductory analysis to potentially significant variables

Want to insert a picture from your files or add a shape, text box, or table? You got it! On the Insert tab of the ribbon, select the option you need.

Find even more easy-to-use tools on the Insert tab, such as to add a hyperlink or insert a comment.

1. 40119868
2. Median income & college graduates, freestand negatively correlated with driving, non.us.citiizen and public transpo
3. Kathleen:

> value

[1] 40016174

> OSR2

[1] 0.7201434

> R2

[1] 0.7861431

Saturated:

> value

[1] 33549052

> OSR2

[1] 0.8007997

> R2

[1] 0.9484129

BYOM:

> value

[1] 40119868

> OSR2

[1] 0.7678739

> R2

[1] 0.9484129

4.

> value

[1] 33222056

> OSR2

[1] 0.8589603

> R2

[1,] 0.9459049

> OSR2.lasso.final

[1] 0.8050234

> R2.lasso.final

[1] 0.9484048

> value

[1] 33530340