

Math456 Math Modeling Team-essay 2:

The following article is from,

<http://www.sthda.com/english/articles/40-regression-analysis/168-multiple-linear-regression-in-r/>

<https://www.guru99.com/r-simple-multiple-linear-regression.html>

Please read the above articles through the links to understand how to use multiple linear regression model to make a forecasting. You may download some data for simple linear regression from internet and follow the structure as the article to complete the project.

Instruction of the essay

1. You can name your own article title
2. Structure of the essay, six parts, each part is worth 1 point. Total 6 points, if pass the final defense, then +4 points=10 points.

(1) Introduction

Formula and basics
Loading required R packages

(2) Data description

Examples of data and problem
Visualization

(3) Analysis

Computation
Interpretation

(4) Model evaluation

Regression line
Model assessment
Model summary
Coefficients significance
Prediction and Model accuracy

(5) Conclusion

Summary

(6) Reference

Data set: there are 11 data sets for multiple linear regression

https://college.cengage.com/mathematics/brase/understandable_statistics/7e/students/datasets/mlr/frames/frame.html

<http://www.statsci.org/data/multiple.html>