Math456 Math Modeling Project 4:

The following article is from,

https://www.analyticsvidhya.com/blog/2015/08/learning-concept-knn-algorithms-programming/

https://www.edureka.co/blog/knn-algorithm-in-r/

Project-4: Please read the above article to know about how to use the decision tree and KNN model to make a forecasting. You may download some data for decision tree on internet and follow the structure of 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

Dataset: http://www.statsci.org/data/advanced.html