

# Math456 Math Modeling Team essay 5:

The following article is from,

[https://uc-r.github.io/kmeans\\_clustering](https://uc-r.github.io/kmeans_clustering)

Project-5: Please read the above article to know about how to use k-means clustering model to make a forecasting. You may download some data for k-means clustering model 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>