

STAT5104 Information on final project 2018/19 2nd term

The purpose of this project is to provide a hand on experience for students to try the techniques learned from this course using their own real dataset. Students are required to choose **at least** two of the following methods and to compare the results:

1. Classification Tree
2. K-NN classification
3. naïve Bayes classification
4. Logistic Regression / Multinomial logit
5. Artificial Neural Network
6. Cluster Analysis
7. Association Analysis

There are several remarks on this project:

- This project must be application-orientated. The data has to be a **real** dataset of at least 1000 records and 10 variables. Students need to demonstrate how the selected techniques are used to solve a real-life problem. If the data are sensitive or confidential, data can be re-labeled, recoded or even transformed so that the true identity of the data will not be disclosed. However, the variables must be **real**.
- The final report contains an introduction to your problem and description of your dataset; methods to use; findings, comparing results and conclusion.
- Students may use R, SAS and/or EXCEL in their analysis.
- Students are expected to submit their group report. The report should **NOT** more than 15 pages of A4 size including tables and figures. Please write down the names and student id of each member in the group on the cover page and **indicate the percentage of work load of each member involved**.
- Please choose only **one** member in your group to submit a soft copy of your report and related R, SAS programs and/or EXCEL files and datasets.

You can form your own group but the group size cannot be more than 6 members or less than 2 members.

This project consists of 30% of your total mark in this course and to be submitted on or before **May 13, 2019**.

Academic honesty and plagiarism

Attention is drawn to University policy and regulations on honesty in academic work, and to the disciplinary guidelines and procedures applicable to breaches of such policy and regulations. Details may be found at <http://www.cuhk.edu.hk/policy/academichonesty/>.