CSE/CPEG Final Year Project/Thesis  
  
Monthly-Report Submission Guideline

**Objective:** To track the progress of the Final Year Project/Thesis (FYP/FYT).

* There are **5** monthly reports which account for **5%** of the final grade.
* There are 4 monthly reports due in the Fall, i.e. Sept., Oct., Nov. and Dec. We recommend the meetings take place before the proposal report is due in Sept. and middle of the month in Oct., Nov. and Dec.
* The last monthly report is due in Feb., before the progress report is due.
* It is the responsibility of the student to submit the completed report to the FYPMS.

**Monthly Report for CSE FYP/FYT**

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| Project Code: | DL2 | Supervisor(s): | | Professor Dik LEE | | |
| Project Title: | Predicting trends of Interests in Twitter | | | | | |
| Group Member(s) and Student ID(s): | Luk Wing San (20193803)  Tsang Chiu Sing (20133126)  Kwok Chun Ho Andy (20272350) | | | | | |
| Reporting Period:   * Scan report and submit via the FYPMS | Report #1  Sept.  Report #2  Oct.  Report #3  Nov.  Report #4  Dec.  Report #5  Feb | | | | | |
| Progress:   * List the work completed in this reporting period. * Identify the major difficulties encountered. * Comment on the overall progress. | * Developed a new clustering methodology that groups similar content and behavior of hashtags into 4-keyword clusters, such that the similar behavior can be grouped up and the prediction can be enhanced due to the availability of training data. * Developed two approaches to prediction, namely Tweet count prediction and Trend Prediction(binary) to include both time-series prediction and binary “isTrending” prediction. Therefore, we can predict not only the counts of hashtag in anytime, but also detect when the hashtags will be classified as trending. * Applied some time-series analysis for predicting counts, including linear regression analysis, moving average analysis, which will be used as the baseline of our prediction results. * Applied Linear Support Vector Regression to predict the tweet count of any hashtags and anytime within our data coverage. | | | | | |
| Future Plan:   * Write down the working plan | * We are going to apply more algorithms for tweet rate prediction and the performance will be compared against each other, with an aim to select some of the highest performance algorithms to be focused on later. * We are going to preprocess the tweet data again for binary “isTrending” classification, which requires us to give a definition to “Trending” and “not trending” and we will also include some classification algorithms for the prediction here. | | | | | |
| Supervisor’s  Comments: |  | | | | | |
| Supervisor’s Overall Evaluation:  F  D  C-  C  C+  B-  B  B+  A-  A  A+ | (please circle) | | | | | (letter grade) |
| Meeting  Date & Time: | 7th December, 2017 | | | | | |
| Group Representative’s Signature: |  | | Supervisor’s Signature: | |  | |

(Version 2015-09-17)