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. | * Applied several time-series prediction algorithms, including LSTM Recurrent Neural Networks, k-neighbor regression, random forest regressor, Gaussian process regression, decision tree regressor, Linear Support Vector Regression, etc. * Finalized the pre-processing methodology for “isTrending” Prediction. We developed a pipeline process that includes Normalization, Emphasis, Smoothing. * Tested several classification algorithms for “isTrending” prediction, including Logistic Regression, SVM models and Neural Network model. * Improved the existing model for hashtags clustering to include make a more reasonable clustering through adopting two new algorithms. * Applied some data visualization techniques to make it easier to visualize the result, which would also make the results more presentable on the report. | | | | | |
| Future Plan:   * Write down the working plan | * We have already developed and tried out >20 approaches for prediction. The current focus is to document all the methodology clearly and start writing the progress report earlier. * We are going to improve our clustering method further by adopting machine learning algorithms and compare the result of different clustering method against each other and the baseline to see the improvement of different methodology towards prediction accuracy. | | | | | |
| 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: | 1st February, 2018 | | | | | |
| Group Representative’s Signature: |  | | Supervisor’s Signature: | |  | |

(Version 2015-09-17)