

Supervisor Meeting 6

Date & Time: 15 Feb 10:30am - 11:30am

Venue: SIS MR 4.4

Attendees: Prof. Kam Tin Seong (Supervisor), Wang Sijia, Ren Mengxi, Wang Tianjing

Absentees: Null

Agenda:

1. Consult prof about any clustering method we could apply
2. Check with Prof about the midterm deliverable (report by Sunday?)

Details:

1. For interim deliverables, a report is definitely needed. The format of the report depends on how particular our sponsor is. If they are ok with it, all the findings can be posted in wiki page. If there is anything confidential, then a separate report is needed to be submitted into dropbox. Prof showed us the wiki page done by seniors (2014 term 2: time series analysis on singapore public transportation) which we can use as a reference.
2. For interim presentation, we need to be selective about our work. Prof is expecting graphs with important findings behind, instead of everything we have done. Every graph should come with explanation, do not show screenshot only. Organize and articulate it about the story we retrieve from the analysis.
3. Comments on the graphs:
 - a. Heatmap by hour and day of week: The pattern is different between two class break intervals. Unlike 3pm which obviously has large amount of people coming in, there is a spread over between 11-13. It may be because of the lunch time. However, the exact reason can only be given by conducting interviews etc which is not required.
 - b. % of Total (N Rows) vs. Visits by Date by Student: to deal with many very small numbers which are not able to be shown clearly in graphs, we can group them together (eg. 8 & above). For the two students who enters more than 30 times a day, can consider as outliers and exclude them.
4. LCA can be applied in many ways. In our case is used for cluster analysis. Prof is ok with our initiation, just need to make sure the input attributes are selected carefully.
5. Prof provided us a sample project (Video game analysis: <https://christhng.shinyapps.io/interactivedashboard22/>). We can look into their interactive dashboard to have a better idea. They are using RShiny framework.
6. A storyboard need to be prepared before start coding. Plan out what we want user to see otherwise the result may not be useful. He said the flow is not there yet which we need to improve on.

Action Plan:

Item	Person in charge	Deadline
Modify exploratory graphs according to supervisor's suggestion	Mengxi	Feb.16
Modify slides to give a better flow	Sijia	Feb.16
Update detailed process on wiki	Tianjing	Feb.19