**Mentor Meeting 4**

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| Date: | 29 March 2018 |
| Time: | 3pm – 4pm |
| Venue: | SIS Meeting Room 4.5 |
| Attendees: | Joanne Ong Shi Ying  John Koh Wei De  Rachel Tay  Professor Kam Tin Seong |
| Absentees: |  |
| Agenda: | Feedback for Research Paper |

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| No. | Details | Action By | Due Date |
| 1 | Abstract Feedback   * Predict not forecast * Lack of focus * Not very clear what we are trying to build * Loose use of terminologies * Final format of the deliverable is important (research paper has to be in MS word format, peer reviews must be included. Comments or make edits. Activate the comments. Activate the review.) | All | - |
| 2 | Progress feedback   * Hardcoding is bad… if want to change to 2 hours how… (JSL for JMP/ R/ Python) * User succession - monitor the same user when we compare 2016 and 2017   + Since we might be analysing different groups of users, like students who graduated and students who just entered. Hence, the borrowing pattern may be different.   + Comparison of the number of succession borrowings from 2016 to 2017 - contingency table analysis * Take simulated results to compare * Contingency chi-square tables + iterations of simulations → converge to finding * What is this change in proportion of the increase? * Don’t say that they are satisfied, cos we don’t know that. We only know their borrowing period. * Comparing 2016 and 2017 for 2/3 hours   + 2 hours 50% median - 1.9054 (hitting the limit)   + 3 hours 50% median - 2.275 (a bit far from the cut off)   + Might be possible that 2 hours loan period is better than 3 hours loan period   + Mean analysis. Between means test.   + Compare both. Compare with a mean = 3. * Course area - number of categories??? Cannot have excessive categories   + Number of categories - 10% of the total number of transaction points * Sufficient?   + Lack of list of reservations. We do not know the demand of the book   + There is a high chance that they need the book, but there may not be anyone in the queue   + Cannot do decision tree since we have continuous variable; multiple logistics regression   + Prediction profiler for nominal logistics fit   + No appropriate data * Overdue period - non parametric (not normal distribution - use median for the test) vs between means test (normal distribution) |  |  |

Meeting was adjourned at 4pm. These minutes will be circulated and adopted if there are no amendments reported in the next three days.

**Agenda for next meeting**

* Statistical analysis/ no classification (especially for the sharing)
* Comparisons should involve contingency analysis. Compute the contingency values to check if the values are indeed statistically different.
* School into the By.
* Length of loan policy.
* Distribution, normal or not. Nonparametric or means test. Finish this first.

Prepared by,

Joanne Ong Shi Ying

Vetted and edited by,

John Koh Wei De