



10 Mar 2017 Supervisor Meeting 9

*Created by: Chermain Ang (10/03/17)
Edited and Vetted by: Gareth Ng (11/03/17)*

| DATE | | TIME | VENUE |
|---|--|-------------------|-----------------------------------|
| 10-Mar-17 | | 5:30 PM – 6:00 PM | SMU SIS MR 4.6 |
| Meeting Type | Supervisor Meeting | | |
| Facilitator | Gareth Ng | | |
| Note taker | Chermain Ang | | |
| Timekeeper | Jeremy Ong | | |
| Attendees | Chermain Ang (CA), Gareth Ng (GN), Jeremy Ong (JO), Prof Kam Tin Seong (TS) | | |
| Absentees | NA | | |
| Agenda | 1. Updates on statistical analysis performed. | | |
| MEETING ITEM 1: Updates on statistical analysis performed. | | | Time Allocated 60 mins |
| Name | Discussion | Follow Up By | |
| GN | a. Showed Prof Kam the results of ANOVA test for schools, and also highlighted the differences observed in the Public schools classification (101 and 201), as well as the performance between boys and girls schools scores. | | |
| TS | b. Guided the team step-by-step on understanding the ANOVA results and the functions available in JMP to look at the results in more detail. c. Covered on the use of correlation matrix to see the correlation between the variables, and pointed out that if there are too many variables which are highly correlated to one another, we would need to do a data reduction. | | |
| JO | d. Showed Prof Kam on the scoring distribution of students by their schools. | | |
| TS | e. Suggested to filter schools by quantile distribution. f. Pointed out that the boxplot on student scored by schools showed that there are more outliers for the very good schools compared to the schools with lower average scores. | | |
| CA | g. Asked Prof Kam if we should consider using decision tree and binning of student scores, as done by the previous group. | | |
| TS | h. Informed us that we need not copy what the previous group did, as we treated the scored as | | |



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| | continuous whereas the previous group treated it as a categorical variable. | |
| CA | i. Mentioned to Prof Kam that we would be working on Multiple Linear Regression and share our discovery in the next meeting. | CA/JO |
| TS | j. Highlighted that we can consider performing Generalised Regression, as there are many variables in the dataset. k. Mentioned that for the final Poster, the focus is more on the findings from our analysis. | GN |
| GN | l. Thanked Prof Kam for his advice and called an end to the supervisor meeting. | |
| Remarks | | |
| | | |

To-do

| No. | Action Items | Person I/C | Deadline | Remarks |
|-----|---|------------|-----------|---------|
| 1i | 1. Perform Multiple Linear Regression analysis for Students | JO | 13 Mar 17 | |
| 1i | 2. Perform Multiple Linear Regression analysis for Schools | CA | 13 Mar 17 | |
| 1j | 3. Read up on Generalised Regression using JMP and try some analysis with it. | GN | 13 Mar 17 | |