04 Apr 2017 Supervisor Meeting 12

Created by: Jeremy Ong (04/04/17)
Edited and Vetted by: Chermain Ang (04/04/17)

DATE	TIME	VENUE
04-Apr-17	2:00 PM – 3:00 PM	SMU SIS MR 4.6

Meeting Type	Supervisor Meeting
Facilitator	Chermain Ang
Note taker	Jeremy Ong
Timekeeper	Gareth Ng
Attendees	Chermain Ang (CA), Gareth Ng (GN), Jeremy Ong (JO), Prof Kam Tin Seong (TS)
Absentees	NA
Agenda	1. Confirmation of Models used

MEETING ITEM 1: Confirmation of Models used		Time Allocated 60 mins
Name	**Discussion**	**Follow Up By**
CA	a. Shared the findings of MLR analysis on School dataset. b. Mixed stepwise has the highest RSquared and Adjusted RSquared values for School Science performance, and has the most explanatory variables compared to forward and backward stepwise analysis. c. Backward stepwise has the highest RSquared and Adjusted RSquared values for Overall School Performance. All 3 analysis returned the same variable output. d. Main observations for School Science and School Overall Performance are related to Socioeconomic factors, investment in IT infrastructures of schools.	
TS	e. Recommended to select individual parameters based on the parameter estimates values. Elaborated that parameter estimates tell the relative importance of a factor. The one with the highest value is the most important parameter. f. Mentioned that when describing the results, we do not need to mention everything, but to highlight interesting differences or similarities between science and overall performances. Highlight on the differences as well – the unique parameters for science and overall performance respectively.	

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CA	g. Asked Prof Kam if all continuous variables should be added each time when building the model.	
TS	h. Explained that one way to go about the issue is to use decision tree to identify the variables with high logworth values, and only retain those when running the Model again, instead of adding all the continuous variables at every iteration.	CA
JO	i. Brought up the issue that the scripts for recursive partitioning does not re-run when saved in the data table. j. Checked with Prof Kam if it is okay for us to save the leaf tables (results) in the Data Table instead.	
TS	k. Agreeable to saving the results in the Data Table instead. Reiterated that when discussing on our findings in the report, to highlight on the key differences, and that there is no need to elaborate on every single result. Important thing is to explain why we choose to elaborate on those factors.	JO
CA	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
1h	1. Use regression tree to identify which continuous variables to keep, then re-run the model and save final output.	CA	06 Apr 17	
1k	2. Save output into data table. Identify key difference and similarities for reading, math, science, and overall student performance.	JO	06 Apr 17	