PISA

30 Mar 2017 Supervisor Meeting 11

Created by: Gareth Ng(30/03/17)
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DATE	TIME	VENUE
30-Mar-17	2:00 PM – 3:00 PM	SMU SIS MR 4.6
Meeting Type	Supervisor Meeting	
Facilitator	Jeremy Ong	
Note taker	Gareth Ng	
Timekeeper	Chermain Ang	
Attendees	Chermain Ang (CA), Gareth Ng (GN), Jeremy Ong (JO), Prof Kam Tin Seong (TS)	
Absentees	NA	
Agenda	1. Updates on Multiple Linear Regression analysis and Recursive Tree	

MEETING ITEM 1: Updates on Multiple Linear Regression analysis and Recursive Tree		Time Allocated 60 mins
Name	**Discussion**	**Follow Up By**
CA	a. Shared the findings and roadblocks faced when performing MLR and Stepwise. No result for backward stepwise analysis.	
TS	b. Suggested that it could be that there are too many variables ran. To perform stepwise for smaller sizes of variables.	CA
JO	c. Shared results of decision tree analysis done on student scoring performance. d. Asked Prof Kam if we should consider Bootstrap Forest and Boosted Tree partition methods as comparison.	
TS	e. Mentioned that we can consider the other partition methods, but we need to understand it conceptually. f. Discussed on the findings from the decision tree analysis, and explored with the team on ways we can explain the results. g. Mentioned that for decision tree, we should use the continuous scoring variables instead of the categorical ones, since we are using the continuous variables for the School MLR analysis. Elaborated more on the different types of decision trees.	JO
JO	h. Checked with Prof Kam on what are key things to focus on when analyzing the dataset using partition methods.	

TS	i.	Highlighted the need to exclude rows with missing values when performing the analysis.	JO
CA	j.	Shared with Prof Kam our proposed structure of our research papers, and informed him of our decision to do 3 papers.	
TS	k.	Mentioned that for Literature Review, the focus is not so much on reviewing PISA data, but the literature done by others who performed evaluations on student and school performance, the methods and models used, their key findings. For data preparation, to focus on how we performed the standardized scoring in order to compare students' performance.	
JO	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
1b	1. Group variables in school questionnaire into smaller sizes, then perform stepwise analysis again and re-run MLR model.	CA	03 Apr 17	
1e, f,g, i	2. Perform Partition Modeling for student dataset using the continuous scores.	JO	03 Apr 17	