



## **Supervisor Meeting #7**

Drafted by: Liam Pang (23/03/2018)
Edited and Vetted by: Ong Geok Ting (23/03/2018)

<u>Date</u>	<u>Time</u>	<u>Venue</u>
23/03/2018	1400Hrs – 1500Hrs	SIS MR 4-06

**Participants:** Mdm Meenakshi, Liam Pang, Ong Geok Ting and Tan Rui Feng **Agenda:** 

- 1. To discuss the application of Latent Class Clustering to the current project
- 2. To discuss and clarify issues with the abstract
- 3. To consolidate suggestions on the body of the research paper

Mee	ting Item 1:			
S/N	Issue	Action	By	Due
1	Clarifying how the latent	- Interpret latent	Tan Rui	25/3/18
	clustering works with	class results by	Feng	
	supervisor. The problems raised	looking at		
	were:	highlighted		
	- Unable to put the data	values. Study the		
	into quantile	high, low values		
	- Not sure of how to	and proportion		
	interpret results	with business		
	- Not sure how to treat 0	sense.		
	for this clustering	- Label all the 0 as		
	exercise	a bin itself, then		
	- Not sure to determine	the rest of the data		
	which is a better cluster	can be put into 4		
	fit	other bins. E.g. all		
		0s = No sessions		
	Supervisor recommended the	- Recommended		
	team to read up on this	bins to create can		
	clustering method through	be quantiles.		
	research paper so as to	- Refer to AIC to		
	understand this method better.	determine which		
		is the best no. of		
		cluster. The lower		

		the score, the		
2	The team wanted to clarify what are the best ways to report the findings of the cluster.  Supervisor advised the team to use these steps as guidance:  1. Report the percentages from the latent class analysis results  2. Provide characteristics of each cluster  3. Reference to the distribution of the data E.g. What is the min, max, median, what does it mean?  4. Interpret with business context to make it understandable for the	better the fit.  To conduct latent class analysis and follow the recommended steps from the supervisor.	Tan Rui Feng	25/3/18
3	client Supervisor proposed adding the clusters into the dashboard to provide client with more business meaning.	To test and view if this option adds further value to the dashboard as a whole.	Ong Geok Ting	30/3/18
Mee	ting Item 2: Abstract			<u>'</u>
S/N	Issue	Action	By	Due
1	Mdm Meenakshi had discussed the abstract with Prof. Kam. These are the suggested changes from the supervisors:  - Removal of visualisation	To amend the abstract as suggested.	Liam Pang	25/3/18
	from the title and replace it with clustering analysis  - Describe the EDA techniques better as part of methodology discussion - Discuss the cluster analysis in greater detail			

2	- Keep the abstract more high level with no needs for greater details  The supervisors also provided	To conduct research into	All	28/3/18
	some feedback with regards to the content of the paper.  - Describe how K-Means was done and why the results were not ideal - Discuss why latent class clustering was explored - Conduct literature review which discusses these methods - Discuss the skewness of	the details of the clustering techniques.		
M	the data			
	ting Item 3: Dashboard	<b>.</b>	l D	Ъ
S/N	Issue	Action  Team to brainstorm ways	By	<b>Due</b>
	Issue The supervisors provided some	Team to brainstorm ways	By All	<b>Due</b> 30/3/2018
S/N	Issue			
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a	Team to brainstorm ways to improve existing		
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a high proportion of 0s, the	Team to brainstorm ways to improve existing visualisation by using the 0s.		
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a high proportion of 0s, the team should think of	Team to brainstorm ways to improve existing visualisation by using the 0s.  To acquire and read		
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a high proportion of 0s, the	Team to brainstorm ways to improve existing visualisation by using the 0s.		
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a high proportion of 0s, the team should think of meaningful ways to utilise these data, such as having an inactive/low-	Team to brainstorm ways to improve existing visualisation by using the 0s.  To acquire and read		
S/N	Issue The supervisors provided some feedbacks to improve on the dashboard.  - As the data contain a high proportion of 0s, the team should think of meaningful ways to utilise these data, such as having an inactive/low-engagement counter	Team to brainstorm ways to improve existing visualisation by using the 0s.  To acquire and read		
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