Supervisor Meeting Minutes 01

Date/Time	15th January 2018, 2pm-2.40pm
Venue	SIS building Meeting Room 4.5
Team Attendees	Kevin Chong, Lim Yan Ling, Tee Yu Xuan
Supervisor	Prof Kam

Agenda:

1. Review project scope and details

S/N	Note/Task	Actor	Follow-up Action
1.	 Yu Xuan and Kevin explained the proposal, our methodology, work scope etc. Prof is concern about the pricing data our team is analysing. He explained that it is only minute tick data for a currency pair. With the data, our team is doing a forecasting model not a predictive model. 		
2.	 Professor's methodology advice: Data exploration: look at the top 20 counters in Forex and see if they are forming a family Look at multiple currency instead of just limiting to USD and Yen. E.g SGD vs Other countries' currencies. Do a time series and use data pattern methods to group them into clusters Do segmentation and clustering. Apply time series clustering. Look at the algorithm that can do wrapping and cross sectional. Group them together and do a forecast Don't have to build a sophisticated algorithm 2 stages of analysis: Explorations to group Time series to forecast and monitor next month's results and compare When exploring data, look at short time period. Look at hourly transaction or 15 mins interval. Check if they are forming a cluster if they are doing a daily transaction. Every week when there is new data update, forecast every week. Update and track everyday. 		

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3.	Professor's advice for analytics tools:		
	Team should look into Tidyquant .		
	• TS package for time series.		
	• XTS for time series. Do time series clustering. It		
	is already in R programming for time series		
	clustering		
	• Use R Markdown for reporting, generate PDF,		
	PowerPoint, share with intranet.		
	Use R Shiny for interactive web based		
	application		
	Professor inquired about the algorithms that our		
	sponsor uses:		
	Yu Xuan explained our sponsor uses R studio		
	but we use Python		
	Professor thinks that switching to python is not		
	important. Stay with R Studio. The modern way		
	is no longer using R as many don't understand		
	how R works		
	 Prof: Programming in R is relatively easier 		
	because they are syntax		
	 Prof: R has better graphic representation 		
	output than python. To prepare the data for		
	quant analysis.		
4.	Prof's views on our proposal:		
	 Adjust and relook at the project scope. 		
	• To understand relationship of USD and Yen, a		
	lot of time and effort are needed.		
	• In order to build an AI model, our team has to		
	track day to day transaction, all the events that		
	happen daily , every country's data and build a		
	database. Require 3 years to build and we need		
	to track everyday. Too much time and effort are		
	needed. pHD level work.		
	Need to track trade and bilateral relationships		
	too. Sponsor need to have all these news and		
	subscription to CNN etc. Have to collect all		
	these data and analyse it. Machine will		
	integrate and synthesize but we need all the		
	data.		
	We also have to capture trader's behaviour		
	data i.e how they behave (when they buy		
	in/sell) but we may not have that		
	 Price may not be a reflection of trader's 		
	behaviour of buying/selling because some		
	traders invest on gains/lost.		

5.	 Prof advise us to relook at the project scope There are many groups who will be revising their project scope these 2 weeks Review and discuss with our sponsor Can look for prof to finalise scope and details before meeting sponsor Prof will email us and provide us with examples of time series clustering for our reference this evening. 	All	Revise project scope (Completed)
		Yan Ling	Book next consultation slot with prof (Completed)
		Yan Ling	Check email and follow up with prof for time series clustering reference email this evening. (Completed)