Supervisor Meeting Minutes 7

Date: 6th April 2018

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| Present: | Prof Kam, Russell, Weilun, Jing Ying |
| Venue: | SMU SIS MR 4.6 |

## Agenda

* Go through Dashboard
* Discuss network graph for MBA analysis

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| Time | Details | Person In Charge | Status |
| 2:00pm | Issues with MBA visualisation1. The mba is used in the recommendation engine. when location is allocated, we will choose either close distance, near other product with affinity, or in the right category.
2. MBA supposed to look into the product mix and link them together, which will be seen in the the visualisation to see what product is most linked to others. For mba now, there is 3 main categories and allow user to filter them. Maybe only look at those with high support of 50%, then there will be lesser. Identify which product is the ‘influence’.
3. In the mba, we need to consider if the products are within the same order. How does the raw data looks like for mba? (maybe can highlight in report?)
4. First when we do mba, we need to understand the concept of what is the mba all about, and what we computed. With what we had, we will use that values to design a data visualisation, and it should have 3 sliders, the support, lift and confidence, so user can interact with the dashboard. And from what they filter they can tell what is linked together.
5. There is no such thing as optimum, let them decide what they want. MBA is like clustering and segmentation. Group those we are very certain would happen together then try to group them together within the warehouse. What we want to do is take what we have, design the visualisation as mentioned, allow them to interact with it, and also have a table that shows what are the products being displayed on the visualisation. Either sigma or D3, or explore aruleviz.
6. Look into aruleviz and r shiny. Look into it and see if we can try it for association rules. \*\*Prof sent a sample

Dashboard1. Is our dashboard ok with tabs within tabs to mitigate scrolling? Prof thinks it should be fine.

Report1. we have mentioned a lot of things in our report, but this is a kind of practise research paper, we should really provide a proper discussions of the methods used so that it is more complete. We will explain the methods used and also the design. If the focus is the data visualisation, then we should really spend time discussing the considerations we took for our data visualisations. Explain why we used our data visualisation. We want to be able to share those with the most interesting things to talk about. We need to really explain various methodologies we used, for e.g., what is MBA to begin with, for our case, talk about each shipment, to lift, confidence and support. Take a few orders to show a sample of what we did. Then talk about what packages we used. and in order to visualise all the data we did, we then used certain visualisation. Tie up everything together.
2. Neural network is not the same as network graphs we want to use for association rules. Use the arulesviz as sample.
3. Describe the steps we taken and things we done. Link all the parts together, what is ABC, what are we going to do with ABC, how we did with ABC and what we used it. literature part need to increase like what other people already did, if not just describe as a practise that other people are doing out there. Try to reduce all those less important parts.
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