**Capstone Project Proposal**

Gaurav Sureka

Foundations of Data Science

1. What is the problem you want to solve?

Recommender systems are backbones of some of the biggest companies like Amazon and Netflix . My aim is to compare different algorithms of the recommender systems and see which one works the best in both predicting the missing values and in recommending the top products for a particular user based on their historical buying practices. Can various algorithms be combined to make better predictions for the user.

1. Who is your client and why do they care about this problem? In other words, what will your client DO or DECIDE based on your analysis that they wouldn’t have otherwise?

I have no particular client that is interested in this but I think it would be a good exercise to see what kind of differences do different recommender systems have and how similar or different they are.

1. What data are you going to use for this? How will you acquire this data?

I will be getting the data from Kaggle competitions website as a CSV file.

1. In brief, outline your approach to solving this problem (knowing that this might change later).

Firstly I will be going through the data and seeing what fields are important for my analysis and start working on them. Then I may do some visualizations to see if there are any obvious patterns that stand out in the data. I will also try to do some text analytics based on the customer reviews to see what kind of sentiment is there among the consumers.

1. What are your deliverables? Typically, this would include code, along with a paper and/or a slide deck
2. Source code
3. Slides
4. Trying to come up with a short story based on it.