**Progress Report – Agnibh Dasgupta – Fall 2019 – 3rd Semester**

I’ve continued my work on Stock market prediction using Reinforcement Learning. I’ve narrowed down an algorithm to work on (DQN) and applied it on historical stock data.

I’ve started working on my research this semester under my thesis advisor Dr. Nicholas Flann. We’ve talked about potential topics to focus my thesis on. We’ve tentatively decided working on Stock Market prediction using Reinforcement Learning.

As part of my coursework for Reinforcement Learning, I have worked on developing a rough model of a Stock Trading optimizer using Reinforcement Learning (DQN with CNN). I have worked on this project for this semester which will likely be the foundation of my thesis and presented a poster on it:

