SMA (Simple Moving Average)

1. **Explore best ways to get stock data** (I have used the unofficial yahoo api)
   1. However may need more granular data – i.e. stock data from every single minute for particular algorithm
2. Create github repo
   1. getStock.py – file that fetches stock data – should store as csv because it is a lengthy operation that often fails
   2. sma.py – file that implements algorithm
   3. README.md – maybe do something similar to the study proposal
3. Implement SMA
4. Figure out best way to look at runtime/ effectiveness of algo?
   1. THIS IS AN IMPORTANT PART – how to measure?
5. Write up
   1. Structure
      1. Introduction to topic
      2. Motivation
      3. Implementation
      4. Analysis of Algo
      5. Conclusion

Continued research into existing literature and methods – Summary Paper

1. Start diving into more academic papers (versus the more general ones that I have previously looked at)

If don’t find something good for getting granular data – then start a crawler myself

VAR – case to contribute for thesis, nice contribution for introduction, not something that really happens that much

Analysis of Algo

* Time analysis
* Quality Metric
  + Not always going to guarantee success, but is it generally successful
  + If you have used following algo over the time – compared to some other baseline
* Space
* Data storage in memory

Continuing to look at algos

Also continue to search out measure

* How to compare specific algorithmic against particular measures.