***Week 1:***

***Day 1-2:*** *Proposals Draft, Data Collection and Preprocessing*

***Day 3-4:*** *Familiarization with Prophet and Python Environment Setup*

***Day 5-7:*** *Model Development and Initial Testing*

***Week 2:***

***Day 1-2:*** *Model Tuning and Optimization*

***Day 3-4:*** *Validation and Fine-tuning*

***Day 5-6:*** *Documentation, Report Writing, and Presentation Preparation*

***Day 7:*** *Final Review and Presentation Rehearsal*

*Order of Work:*

*Objective Statement: We will attempt to predict the trajectory of the SP500 by one year, by running a series of regression and forecast models. We will also extract data from other key economic and financial source like the spot price of gold, and the price of crude oil in order to find correlations and integrate said data with the SP500 data in order to better predict the SP500 forecast.*

*Todd is delegated as the project manager, he will oversee the project milestones. He will also draft the presentation slides.*

*Chris will be compiling the data, plotting the graphs and extracting the datasets.*

*Sergio will run a regression model on the datasets to fine tune the forecast model.*

*Reece will compile the information and integrate into a Readme.md*

*Key Milestones/Critical Path:*

* *Completion of compiling data and extraction of the raw data.(Wednesday)*
* *Completion of plotting and running of forecast and regression models.(Wednesday)*
* *Completion of Presentation slides (Monday)*
* *Completion of Readme.md (Monday)*
* *Completion of pushing final datasets and data files to the main branch (Monday)*
* *Review of components and a dry run of the presentation. (Monday)*