Date	Attendees	Notes

9/8/2023	Anindita Ghosh
	Rudrakumar Patel
	Christopher Myau
		Stand-Up Updates:
		• Discussed distribution of workload for this week
		   ○ Anindita - Scripting
		   ○ Christopher - Recording
		   ○ Rudra - Demoing
		• Started interfacing with the API
		• VM machine doesn't play nicely with myphpadmin so we'll just be running mysql on our machines locally
		• Discussed submission strategies and level of detail in work. We decided to minimize functionality in our submission to KISS, and keep things simple.
		
		Data Collection / Storage
		• Interfaced with yfinance API to scrape three stock tickers, Google (GOOGL), Amazon (AMZN) and Meta (META)
		• Dumped data to MySQL database.
		• Coded a stock management system.
		
		Data Pre-Processing
		• We decided to do first forwards, then backward filling to handle missing values
		• Added Rolling Average and Daily Returns as computed metrics.
		• Potentially want to remove Nan values from the first two computed metrics
		• Timestamp is converted from a Date-Time64 object to just a simple Date string by parsing the timestamp section out.
		   ○ Specifically the stock prices, especially stock changes over time, would be best to analyze performance for part 2

9/9/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	**Stand-Up Updates:** • Prepping Report 3.1 for submission • Rudra is working on setting up the demo for the recording submission • Checked python execution on personal

		computers
9/10/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	Stand-Up Updates: ● Checked Demo Video
9/11/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	Stand-Up Updates: ● Submitted Demo Video, Established regular larger "check-in" meetings every Tuesday and Friday.
9/12/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	API: ● Most granular timestamp for purchase ● Ticker ● Did research on basic parameters like Moving Average Convergence Divergence(MACD), Exponentially weighted average(EWM) ● Visualized how these impact stock prediction in different time.
9/13/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	Data Visualization : ● Observed the distribution of the data : Values of different columns like Rolling Average, MACD, EWM vs the Close price of stocks ● ● Plotted the real-time variance of the data vs the MACD and EWM to investigate areas where they cross. Generate buy/sell signals : ● Defined function that would generate buy/sell signals based on the MACD, EWM and the rolling average. ● ● Plotted on graph showing dates and the actions to be taken on the stock : buy, sell or hold.
9/14/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	● Ani and Rudra made algorithms for generating signals ● Different methods like ARIMA, LSTM, MACD tried to get best results ● Chris working on extrapolating other complex algorithms for better accuracy in prediction.
9/15/2023	Anindita Ghosh	● All working to get best results for their

	Rudrakumar Patel Christopher Myau	algorithms. • Chris brings in interesting concepts like shorting stocks. Work ongoing for all different approaches.
9/16/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Discussed project requirements • Rudra will package and submit • Possible future API integration with agents and trading environment ○ Adding Sharpe Ratio
9/17/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Submitted report
9/18/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Recorded Demo

9/19/2023	Anindita Ghosh
	Rudrakumar Patel
	Christopher Myau
		• Assigned for Report 4
		   ○ Chris on Data Storage
		   ○ Ani on Data Collection
		   ○ Rudra on Data Extraction

9/20/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Ani made the PRAW extraction • Chris and Rudra working on data preprocessing and database storage
9/21/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Discussed integration and API limits • Chris will handle the demo a
9/22/2023	Anindita Ghosh Rudrakumar Patel Christopher Myau	• Work-ready for submission