1. **28/03/2024**

What’s Been Done since the Previous Meeting:

Giri -

Oliver

Rishabh

Steven –

Reece –

What’s Being Done:

Giri

Oliver

Rishabh

Steven –

Reece –

1. **21/03/2024**

What’s Been Done since the Previous Meeting:

Giri – Completed some part of the report and the script

Oliver – Completed some parts of the report.

Rishabh – Finished with implementations from poster feedback

Steven – Worked on the testing.

Reece – No contribution

What’s Being Done:

Giri – Working on the script and technical report

Oliver – Editing of video and working on the report

Rishabh – working on the report and making of the script alongside me.

Steven – Working on the report and making of the demonstration video

Reece – Agreed to work on the test questionnaire for user testing and do some parts of the technical report assigned to him

**Further Discussion** – We are finalising the deliverables and tidying up the GitLab.

1. **14/03/2024**

What’s Been Done since the Previous Meeting:

Giri – completed some parts of the report, checked of the code for readability and layout.

Oliver – drafted some parts of the report

Rishabh – Implemented improvements from the poster feedback(improving chatbot readability and implemented validation loss over graph)

Steven – drafted some parts of the report

Reece – No engagement or contribution

What’s Being Done:

Giri - Making a script for the video, continuing with the technical report and finishing off the UI design.

Rishabh – Continuing with the report, making script for the video and refined some implementations.

Oliver – Continuing with the report.

Steven – Recording the project explanation video

Reece – No engagement or contribution

Further discussion – Checking of each other’s completed sections and drafts and doing some research.

1. **07/03/2024**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri, Oliver, Rishabh and Steven – Did final preparations for the project fair

Reece – Absent

Rishabh – Did bug fixing for download feature, image size modification and improved prompting for GPT.

Oliver – Finished the chatlog implementation.

What’s Being Done:

Giri, Oliver, Rishabh and Steven – Discussing the feedback from Poster and brainstorming ideas for our next steps to improve the project.

1. **29/02/2024 – Poster Fair**

Not In Attendance: Reece

What’s been done:

Giri – Created contribution list and brainstormed additional features using OPENAI.

Oliver – Implemented chatlog for OPENAI

Reece – No engagement

Rishabh and Steven - Fixed the UI for better consistency, added additional clarity for the code and improved ChatGPT API usage.

What’s Being Done:

Giri, Oliver, Rishabh and Steven – Doing final preparations for the project fair

Reece – Absent

Rishabh – Bug fixing for download feature, image size modification and improving prompting.

Oliver – Finishing off the chatlog implementation

1. **21/02/2024**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri – Completed research on user experience for the application and finished the real-time stock prices.

Giri, Oliver, Rishabh and Steven – Finished the poster and abstract for the submission.

Reece – Uploaded chat box implementation.

Rishabh and Steven – Finished chat box implementation, modifited existing elements and improved call back functionalities.

What’s Being Done:

Giri – Creating contribution list and brainstorming additional features using OPENAI.

Oliver – Implementing chatlog for OPENAI

Reece – No engagement

Rishabh and Steven - Fixing the UI for better consistency, adding additional clarity for the code and improving ChatGPT API usage.

Further Discussion: We discussed about further improving our UI, ChatGPT implementation and integrating new features.

1. **14/02/2024 -3.30pm**

What’s Been Done since the Previous Meeting:

Giri – Updated the readme.md file and implemented real-time stock prices to the application.

Oliver – Updated his research on the repository.

Reece – Added his research document to the repository.

Rishabh and Steven – Worked on integrating the OPENAI and fixed UI consistency.

What’s Being Done:

Giri – Researching on user experience for the application and finishing off the real-time stock prices

Giri, Oliver, Rishabh and Steven – Finishing off the poster and abstract for the submission.

Reece – Attempting chat box implementation.

Rishabh and Steven – Finishing off chat box implementation, modifying existing elements and improving call back functionalities.

1. **5/2/2024 - 5pm**

What’s Been Done since the Previous Meeting:

Giri – Made changes to the UI with colours and did research on real-time stock prices integration

Oliver – Completed some parts of the poster

Reece – No contribution

Rishabh – Made a list of additional features/components for the project for a group review.

Steven – Improved the repository and added license.

What’s Being Done:

Giri – Updating the readme.md file and Implementing real-time stock prices to the application

Oliver – Updating his research on the repository

Reece – Adding his research to the repository

Rishabh and Steven – Working on integrating the OPENAI and fixing UI consistency.

Further Discussion: OpenAI research, UI consistency and next steps for our project.

1. **1/2/2024 - 2.30pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – We both completed some parts(layout and colour scheme) on the abstract and poster.

Reece – No contribution

Rishabh and Steven – Completed integrating minor additional components for the application.

What’s Being Done:

Giri – Changes to the UI with colours and researching real-time stock prices integration

Oliver – Working on the poster

Reece – No contribution

Rishabh – Researching additional features/components for the project

Steven – Fixing up the repository and adding license.

1. **26/1/2024 -3pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri – Completed some parts of the abstract and Poster

Oliver – Completed some parts of the poster

Reece – No contribution

Rishabh – Added additional components such as description of the company and the download button to the application

Steven – Worked on additional components such as input parameters and graph download button.

What’s Being Done:

Giri and Oliver – Working on the abstract and poster.

Reece – No contribution

Rishabh and Steven – Finishing off the additional components for the application

Further Discussion: Looking at previous years’ abstract and poster related to our projects and other projects. Complete the additional components implementation to the application.

1. **17/1/2024 -5pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – Did research on improving the accuracy of the algorithm

Reece – No contribution

Rishabh and Steven – Normalising the code(formatting and layout)

What’s Being Done:

Giri – Working on Abstract

Oliver – Working on Poster

Reece – No engagement

Rishabh – Adding additional components such as description of the company and the download button to the application

Steven – Working on additional components such as input parameters and graph download button

Further Discussion: Input parameters such as batch size and sequence length to be added. Abstract and Poster discussion with the whole team for a review.

1. **10/1/2024 - 1pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri – Modified the epochs and added mean squared error.

Oliver – Came up with ideas for improving the application and shared with the team.

Reece – No contribution

Rishabh – Submitted the initial application with Dash implementation.

Steven – Modified the group plan and shared ideas for the UI with team.

What’s Being Done:

Giri and Oliver – Research on improving the accuracy of the algorithm

Reece – Absent

Rishabh and Steven – Normalising the code(formatting and layout)

Further Discussion: Improving the readability of code and accuracy of algorithm.

1. **27/12/2023 -2.30pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – Brainstormed ideas for the poster.

Reece – No contribution

Rishabh – Worked on the Dash Implementation with Steven.

What’s Being Done:

Giri – Modifying the epochs and adding mean squared error

Oliver – Brainstorming ideas for improving the application

Reece – Haven’t been attending meetings

Rishabh – Submitting the initial application with Dash implementation

Steven – Modifying the group plan

Further Discussion: Researching to implement additional features and functionalities using Dash.

1. **19/12/2023 -8pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – Set up directories for Poster and abstract and did research on creating an effective poster

Reece – No engagement

Rishabh – Researched Dash for implementing into our application

Steven – Listed out additional features for the discussion

What’s Being Done:

Giri – Brainstorming ideas for the poster with Oliver

Reece – Haven’t been attending meetings

Rishabh – Working on the Dash Implementation with Steven.

Further Discussion: Using Dash for data visualisation, reading documentation for Dash and additional features for Dash.

1. **12/12/2023 - 6pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Oliver – Worked on research for improvement to the LSTM model.

Reece – Have not been attending meetings.

Rishabh – Worked on running the application on a local server via Dash.

Steven and Giri – Came up with some additional features/functionalities for the project.

What’s Being Done:

Giri and Oliver– Setting up directories for Poster and abstract and research on creating an effective poster and abstract

Reece – Absent

Rishabh – Researching Dash

Steven – Listing out additional features for the discussion

Further Discussion: Additional features/functionalities such as real-time stock prices and historical volatility graph.

1. **05/12/2023 - 12.30pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – Worked on UI prototype version 2

Reece - Absent

Rishabh – Did research on running the application on a local server

Steven – Came up with features or functionalities for the project

What’s Being Done:

Giri – Collaborating with Steven

Oliver – Working on research for improvement to the LSTM model.

Reece – No engagement

Rishabh – Working on running the application on a local server via Dash.

Steven – Brainstorming additional features for the project

Further Discussion: Historical volatility graph and code quality and readability.

1. **30/11/2023 -2pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri and Oliver – Finished the UI design document

Reece - Absent

Rishabh – Finished the EMA implementation

Steven – Finished the LSTM model

What’s Being Done:

Giri and Oliver – Working on UI prototype 2

Reece - Absent

Rishabh – Research on running the application on a local server

Steven – Brainstorming additional features for the project

Further discussion – Reviewed UI prototype 1 and needed to amend changes.

1. **17/11/2023 - 6pm**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri – Worked on administrative side of the project, brainstormed ideas for UI with Oliver.

Oliver – Worked on the user interface.

Reece – Absence

Rishabh – Developed EMA for LSTM.

Steven – Improved the LSTM model.

What’s Being Done:

Giri – Collaborating with Oliver on the UI design

Oliver – Finishing off the UI design document

Reece - Absent

Rishabh – Finishing off the EMA implementation

Steven – Finishing off the LSTM model

Further Discussion: Ensuring the accuracy of the model and exploring different ways of improving the LSTM model and EMA.

1. **08/11/2023**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri – Completed research on the improvement to LSTM

Oliver – Developed a UI design draft

Reece – Absent

Rishabh and Steven – Improved the clarity of LSTM model

What’s Being Done:

Giri – Working on the administrative side of the project

Oliver – Still working on the UI

Reece – Absence

Rishabh – Working on EMA for LSTM

Steven – Still working on improving the LSTM model

1. **01/11/2023**

Not In Attendance: Reece

What’s Been Done since the Previous Meeting:

Giri - Updated the group plan with Oliver

Oliver – Updated the group plan

Reece – No contribution

Rishabh – Finished the base model for LSTM

Steven - Finished the base model for LSTM

What’s Being Done:

Giri – Research on improvement of LSTM

Oliver – Working on the UI design

Reece – Absent

Rishabh and Steven – Improving the clarity of LSTM model

1. **31/10/2023 -6pm**

What’s Been Done since the Previous Meeting:

Giri and Oliver – Came up with initial ideas for the initial interface design document draft

Reece – Did some research.

Rishabh – Gathered data for training our algorithm

Steven – Looked at the ways to set up the LSTM and relayed back to the team

What’s Being Done:

Giri – Collaborated with Oliver on the group plan

Oliver – Updating the group plan

Reece - Absent

Rishabh – Adding a coding template

Steven – Working on a base model for LSTM

Further Discussion: Creating tasks lists for each other, the number of layers for building the base model and defining objectives/requirements.

1. **27/10/2023 - 6pm**

What’s Been Done since the Previous Meeting:

We all installed the relevant packages on our machines and made sure we all had them running on the machine. Shared our ideas for the project on the group call, made notes and creating an initial plan.

What’s Being Done:

Giri and Oliver – Initial interface design document draft

Reece – Research prior to the start of the project.

Rishabh – Gathering data for training.

Steven – Looking at the ways to set up the LSTM after research.

Further Discussion: Looking at some similar projects as a group to see how we should go about starting the project. Continuing with project planning.

1. **20/10/2023 - 6pm**

What’s Been Done since the Previous Meeting:

Giri and Oliver - Discussed UI ideas with the group

Reece – Shared some ideas for the project

Rishabh –Research on EMA and SMA

Steven – Completed researching neural networks

What’s Being Done:

Giri, Oliver, Reece, Rishabh and Steven – Setting up the IDE with TensorFlow and other packages on our own machines. Also, Brainstorming ideas for our project and creating project plan for the project.

Further Discussion: We discussed about the research carried out by Rishabh and Steven and chose to use RNN and EMA for our project. We also discussed that we would use yahoo finance API.

1. **11/10/2023 - 6pm**

What’s Been Done since the Previous Meeting:

Giri – Research

Oliver – Research

Rishabh – Directories set up, project plan draft

Steven – GitLab repository set up, readme.md document set up

What’s Being Done:

Giri – User interface ideas and create a simple design as a starting point

Oliver – User interface ideas and create a simple design as a starting point

Reece – Looking on existing projects related to deep learning

Steven – CNN and RNN research

Further Discussion:

We looked through the project specification document and Moodle materials for additional guidance as a group and made notes and generated some ideas for our project. We also set up weekly meetings for the next few weeks.

1. **06/10/2023 - 5pm**

What’s Being Done:

Giri – Research(reading through past research articles on stock markets)

Oliver - Research(reading through past research articles related to CNN and cypto)

Reece - Research(reading through past research articles)

Rishabh – Project requirements document draft, directories set up

Steven – setting up of GitLab, Creating project goals and objectives.

Discussion: This was the first meeting for all of us to meet each other and go over the presentation slides given to us by our supervisor Frank Wang. We just looked through the presentation slides and familiarised ourselves with the content and discussed ideas for the project. Tasks were delegated by Giri.