**Meeting Minutes 2**

**Meeting with Professor in class**

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| **Item** | **Details** |
| Date and Time | 17-Jan-2025 |
| Location | In class (Meeting with Mam) |
| Attendees | Kanchan, Lakshmi, Sachin, Karthik |
| Absent | Narendran |
| Agenda | * Getting started with basic ML models * Updating the existing dataset |
| Discussion Points | * Discussion about the problem statement * Update the existing dataset by incorporating stock data from any of the platforms which is feasible(Yahoo finance, AlphaVantage etc). * Also, apart from implementing ML algorithms, the team has to incorporate sentiment analysis into our project scope. * A short presentation about Linear Regression algorithm. |
| Decisions Made | * The team has to come up with a problem statement on what we are trying to solve. * In addition to it, the team will explore to touchbase any of the cloud platforms like AWS, Azure or GCP. |
| Actions Items | * Research on basic models * Start updating the dataset |
| Any concerns (if any) |  |
| Next Meeting Date and Time | 24-Jan-2025 |
| Minutes Prepared By | Sachin Ramasubramanian |

**Meeting with Team Members(Virtually)**

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| **Item** | **Details** |
| Date and Time | 20-Jan-2025 |
| Location | Online (Virtual Meeting) |
| Attendees | Kanchan, Lakshmi, Sachin, Karthik, Narendran |
| Absent |  |
| Agenda | * Discussion about problem statement |
| Discussion Points | * Finalizing the problem statement * Dataset extraction approach |
| Decisions Made | * Initially, the team has to satisfy the course requirement by implementing all ML algorithms discussed in the class. * The team will do a research to see if platforms like Yahoo Finance or AlphaVantage API rate limit is feasible for us. * Helping the presenter by preparing a short presentation on Linear Regression algorithm. |
| Actions Items | * Start with the basic machine learning models. * Lakshmi Priya : Presentation about Linear Regression Algorithm. * Kanchan Devi : Research about how to gather the stock data and learn about how to use API’s * Sachin Ramasubramanian : Research about how to implement complex algorithms and research on platforms to gather the stock data. * Karthik : Research about problem statement and data pipeline platform * Narendaran : To act as SME(Subject-Matter Expert on showing how the industry works and acting accordingly). |
| Any concerns (if any) |  |
| Next Meeting Date and Time | 24-Jan-2025 |
| Minutes Prepared By | Sachin Ramasubramanian |

**Meeting with Professor in class**

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| **Item** | **Details** |
| Date and Time | 24-Jan-2025 |
| Location | In class (Meeting with Mam) |
| Attendees | Kanchan, Lakshmi, Sachin, Karthik |
| Absent | Narendran |
| Agenda | * Presentation on Linear Regression Algorithm * Proceeding with sentiment analysis |
| Discussion Points | * Professor suggested some platforms to look for sentiment news which will have an impact on stocks price. * Finalized the problem statement. |
| Decisions Made | * Based on discussion with professor, the team members concluded the problem statement and will extract the stock data from Yahoo Finance. * Further adding on to it, the team will do a research on platforms like BingNewsSearch API, and twitter API for collecting the news for performing sentiment analysis. |
| Actions Items | * Collect stock data from Yahoo Finance. * Before next meeting with professor, the team will gather the stock data and see which algorithm to implement in the beginning. |
| Any concerns (if any) |  |
| Next Meeting Date and Time | 27-Jan-2025 |
| Minutes Prepared By | Sachin Ramasubramanian |

**Meeting with Team members(Virtually)**

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| **Item** | **Details** |
| Date and Time | 27-Jan-2025 |
| Location | Online (Virtual Meeting) |
| Attendees | Kanchan, Lakshmi, Sachin, Karthik, Narendran |
| Absent |  |
| Agenda | * Extracting stock data from Yahoo Finance |
| Discussion Points | * Data collected from Yahoo Finance * Notify team on how the data is collected and giving an overview. |
| Decisions Made | * Based on the previous agenda, the team has collected the stock data from Yahoo Finance. * All team members given an overview of how the data is collected and what are all the features that were considered to perform model implementation. |
| Actions Items | * Prepare the training dataset. * The team will do a weekly prediction based on the dataset. * Plan and decide which is our target variable and what are all the independent variables. * After preparing the training data, the team has to start implementing the ML models. |
| Any concerns (if any) |  |
| Next Meeting Date and Time | 31-Jan-2025 |
| Minutes Prepared By | Sachin Ramasubramanian |

**Meeting with Professor in class**

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| **Item** | **Details** |
| Date and Time | 31-Jan-2025 |
| Location | In class (Meeting with Mam) |
| Attendees | Kanchan, Lakshmi, Sachin, Karthik |
| Absent | Narendaran |
| Agenda | * To discuss about the stock data gathered from Yahoo Finance and discussion about how to proceed with the sentiment analysis. * In addition to it, implementing basic machine learning algorithms. |
| Discussion Points | * Basic models implementation * Steps for establishing pipelining in the front-end using Python |
| Decisions Made | * Based on the discussion with Professor, the team will start implementing the machine learning models starting from simple algorithms. * The team will do research on how to establish data pipeline for our Machine Learning project using Python libraries. * In addition to it, the team members will search separately on what kind of sentiment data can impact stocks performance and how to incorporate into our project. |
| Actions Items | We have divided the task for each of our team members.   * Kanchan Devi : LSTM(Time-Series algorithm) * Karthik : XGBoost * Narendaran : Prophet * Lakshmi Priya : Arimax and Sarimax * Sachin Ramasubramanian : SVM |
| Any concerns (if any) |  |
| Next Meeting Date and Time | 05-Feb-2025 |
| Minutes Prepared By | Sachin Ramasubramanian |