# MONTHWISE DIARY FOR FINAL PROJECT

## 1 MONTH (OCTOBER)

- **WEEK 1 (22.10.2022):**
  1. The project topic of "Machine Learning Based Child Immunization System" has been finalized.
  2. Started researching and surveying old research papers related to the topic to gain insights and identify potential gaps in the existing work.

- **WEEK 2 (29.10.2022):**

  1. Familiarized with the project requirements and goals with team members and discussed the necessary steps to achieve them.
  2. In this week, we finalized the software and hardware requirements for the project. For software, we used Python programming language, Visual Studio Code as an integrated development environment, and Django as framework for Web development.

## MONTH 2 (NOVEMBER):

- **WEEK 1 (5.10.2022):**

  1. Finalized the dataset for the project and cleaned it thoroughly. Explored the data using descriptive statistics and data visualization techniques.
  2. Implemented feature selection and extraction techniques on the cleaned dataset.
  3. Trained and tuned the selected machine learning model on the dataset.

- **WEEK 2 (12.11.2022):**

  1. Discussed with team members about the performance of the Logistic algorithm and identified areas for improvement.
  2. Worked on improving the Algorithm performance and adding new features to the dataset

- **WEEK 3 (19.11.2022):**

  1. Evaluated the final algorithm and its performance.
  2. Discussed with team member about future directions for research and improvement.

- **WEEK 4 (26.11.2022):**

  1. Prepared a report on the project and documented the steps taken and the results obtained.
  2. Prepared a presentation about the project and its outcomes.

# MONTH 3 (DECEMBER):

- **WEEK 1 (03.12.2022):**

  1. We started building the GUI for the login page and registration page using Python and Django
  2. Started building GUI part of the project

- **WEEK 2 (10.12.2022):**

  1. We have started a literature review for our research paper related to the project.
  2. Our goal is to identify and review relevant research studies, articles, and papers that can provide us with valuable information and insights for our project.
  3. We have also identified several research questions that will guide our study and help us to address the research problem in a structured and systematic manner.

- **WEEK 2 (11.3.2023)**

  1. Encountered an error in Django  and GUI while working on the project.
  2. As a team, we collaborated to troubleshoot and fix the issue by exploring various approaches and consulting relevant resources.

- **WEEK 3 (18.3.2023):**

  1. We have commenced the preparation for stage 1 of our project.
  2. The preparation includes defining the project scope, identifying objectives, and outlining deliverables.
  3. We are also in the process of creating a detailed project plan that includes the timeline, milestones, and tasks required to complete the project successfully.
  4. The aim is to have a clear and comprehensive roadmap for the project, and to manage our resources effectively to meet the project goals.

# MONTH 4 (FEBRUARY):

- **WEEK 1 (04.02.2023):**

  1. Conducted experiments and collected data for the research paper.
  2. Worked on analyzing the collected data.

- **WEEK 2 (11.02.2023):**

  1. Started building the Graphical User Interface (GUI) for the analysis and prediction page using Python and Django.
  2. Merged the prediction model with the GUI format.

- **WEEK 3 (28.01.2023):**

  1. Started working on a survey paper related to the project with the team members.
  2. Conducted a thorough literature review and identified relevant research questions to be addressed in the paper.

# MONTH 5 (MARCH):

- **WEEK 2 (11.03.2023):**

  1. Started fixing the bugs and errors in the GUI that were identified during testing and feedback sessions.
  2. Worked with the team members to improve the user experience and interface of the application.

- **WEEK 3 (18.3.2023):**

  1. Gave our first project demo to our project guide.
  2. Our guide provided feedback on the GUI format and suggested changes to make it more user-friendly.
  3. Guide also suggested adding more features to the system.

- **WEEK 4 (25.03.2023):**
  1. Added the analysis part to the project.
  2. Implemented various data for child health regarding issues and identify patterns and trends.
  3. Integrated the analysis part with the GUI to provide users with a seamless experience of exploring and analyzing the data.

# MONTH 6 (APRIL):

- **WEEK 1 (28.04.2023)**

  1. Discussed with team members about improving the project based on user feedback.
  2. Conducted a user survey and collected feedback on the system.
  3. Identified areas for improvement and worked on addressing the feedback received from the survey.

- **WEEK 2 (29.04.2023):**

  1. Started working on a new GUI format to enhance user interaction.
  2. Conducted research on different GUI frameworks and libraries.
  3. Explored different design patterns and identified the best fit for the project.
  4. Implemented the new GUI format and integrated it into the project.

# MONTH 6 (APRIL):

- **WEEK 1 (04.05.2023):**

  1. Presented the second project review demo to our guide.
  2. Received feedback on the progress and identified areas for improvement.
  3. Discussed and planned for the next steps in the project with the team members.

- **WEEK 1 (06.05.2023):**

  1. Started building survey and research papers.
  2. Discussed which publication to choose to publish these papers.

- **WEEK 2 (13.05.2023):**

  1. Both the survey and research papers were published in a reputable journal and conference, respectively.
  2. Received certificates for each team member as proof of publication.