

Team Registration Document

Participants:

- Aryan Jain: 22107593
- Avanish Singh: 22200727
- Harsh Gurawaliya: 22109730

Chosen Dataset:

- **Title:** Heart Disease Prediction
- **Source:** Kaggle - Heart Disease Prediction
- **Link:**(
<https://www.kaggle.com/datasets/rishidamarla/heart-disease-prediction>)
- **License:** CC0: Public Domain

Problem Statement:

Given the dataset from the University of California Irvine's Machine Learning Repository containing various health-related features of patients, the objective is to develop a predictive model that can identify individuals at high risk of heart disease. The aim is to build a machine learning model that accurately predicts the likelihood of a patient experiencing heart disease in the near future based on factors such as age, sex, cholesterol levels, blood pressure, electrocardiogram results, and other relevant medical attributes.

Motivation for Choosing This Dataset:

We chose this dataset because it aligns with our interest in healthcare and its potential for significant real-world impact. Our team members have personal connections to heart disease, either through family or community, which drives our passion for this project. We are motivated by the potential to create a tool that can assist healthcare professionals in early detection and prevention, ultimately contributing to better health outcomes. The personal relevance and the opportunity to make a meaningful difference were discussed extensively during our meeting and have been the primary motivators for our commitment to this project.

Intention of How to Work Together:

As a group, we have agreed on the following guidelines for collaboration:

- **Roles and Responsibilities:** Each member will take on specific roles such as data preprocessing, model development, and evaluation. Aryan will handle data preprocessing, Avanish will focus on model development, and Harsh will be responsible for evaluation and documentation.
- **Meeting Schedule:** We will meet twice a week on Tuesdays and Fridays from 5 PM to 7 PM to discuss progress, troubleshoot issues, and ensure everyone is on track.
- **Communication:** We will use Slack for daily communication and GitLab for version control and code sharing. Regular updates will be shared to keep everyone informed.
- **Conflict Resolution:** Any conflicts or disagreements will be resolved through discussion and, if necessary, a majority vote.
- **Shared Goals:** Our shared goal is to complete the project successfully by leveraging each other's strengths, maintaining open communication, and supporting one another throughout the project duration.

Signatures:

- Aryan Jain (Date: 2024-05-29)
- Avanish Singh (Date: 2024-05-29)
- Harsh Gurawaliya (Date: 2024-05-29)