Machine Learning Midterm Report

For this assignment our team chose to process the dataset titled, "Heart Disease". The heart disease dataset is considered a public health dataset and has been being collected since 1988 and consists of the following four databases:

Heart Disease databases

- Cleveland
- Hungary
- Switzerland
- Long Beach

Dataset Attributes

This public health dataset consists of 76 attributes in total and are utilized to predict the presence of heart disease in a patient. Attributes such as a patient's age, sex, chest pain types, and resting blood pressure levels upon hospital admission provide statistical insight that helps to determine whether or not heart disease is detectable in a patient.

The Team:

Our team consists of 4 members who have played significant roles in processing the data in the heart disease dataset.

Alexis Sculark:

- Alexis provided a detailed summary of the team goals, and the reasons for this data processing project.
- One hot encoding for categorical features
- Filling missing or NULL values
- normalizing numerical data to make everything consistent.

Hoang Le
Has ensured that the assignments were submitted properly.

David Fasipe David provided most of the code that processes the data, and is the owner of the Github repository where this project lives.

Albert Forest

My intentions are to show great appreciation for the members involved in this project, as they each have done an amazing job at seeing this project through. I also intend to explain my role within this

project.

My Role

My role in this project has been facilitator and coordinator. Since the start of the project, the difficulty of creating the perfect team environment to accomplish the goals of the project was evident. There are four team members that were instrumental in the success of this project and most of them are working together for the first time on this project.

Though the team was considered new, we have found a way to coordinate through multiple meetings and Microsoft Teams communications. My initial strategy was to meet with my group, so I made sure to visit class, in person, to speak with David and Hoang about how we should move forward together as a team.

In our initial meeting, our team had an opportunity to discuss how the team will coordinate and put more efforts towards communication and teamwork. After this meeting, I had an opportunity to call a meeting with Alexis and was able to inform her as to what was discussed by the team and inform her of the dataset chosen by the group during her absence at the initial meeting.

My coordination efforts provided a strong foundation for the team to build on and allowed for double work to be avoided throughout the development process. I have developed valuable experience from this project. Learning how to properly manage a diverse team, such as this one, can be a very difficult process. Project and team management requires patience, discipline, and the ability to allow others to express themselves in a productive manner. Managing a team, such as this one, also requires the ability to be highly responsible and proactive in order to boldly face challenges as they arise. Focus and strength are also essential in tackling all problems for the sake of a succesful project. I am ultimately extremely proud of my team and our final midterm submission.