**Group No: 11**

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| **Roll Number** | **Contribution in the project** | **Name** |
| CB.SC.P2CSE23011 |  | Sirajuddin Khan |
| CB.SC.P2CSE23014 |  | Jose Ignacio Gil |
| CB.SC.P2CSE23020 |  | Patil Sanket Shashikant |

**Title:** Heart Attack Prediction and Analysis

**Problem Statement:**

The objective of this project is to develop a machine learning model that can predict the risk of a heart attack for individuals based on their health attributes and medical history. The dataset contains a collection of features such as age, gender, cholesterol levels, blood pressure, smoking habits, and other relevant health indicators. The model should be able to classify individuals into two groups: those at high risk of a heart attack and those at low risk. This predictive model will assist healthcare professionals in identifying individuals who may require preventative measures or early intervention to reduce the risk of a heart attack. The project aims to achieve high accuracy and reliability in heart attack prediction while also providing insights into the factors that contribute to heart disease.

The dataset for this project would include both input features (independent variables) and the target variable (whether or not an individual has experienced a heart attack). Some common features in such datasets might include age, sex, blood pressure, cholesterol levels, chest pain type, electrocardiographic results, exercise-induced angina, and more. The target variable would be binary, where '1' could represent individuals who have experienced a heart attack, and '0' could represent those who have not.

The success of the project would be determined by the accuracy and performance of the machine learning model in making accurate predictions, as well as the insights gained from the analysis of the dataset regarding the risk factors associated with heart attacks.

**Technology Details**: Category -1 (Web Application)