DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

# PROJECT PROPOSAL

## 1. Project Title: -

Heart Disease Prediction System.

## 2. Project Scope: - (Max 500 words)

## Introduction

## The goal of this project is to develop a heart disease prediction system that will help doctors and healthcare providers in the early detection of heart disease. The system will use data mining and machine learning techniques to analyze patient data and identify risk factors that could lead to heart disease. The project will involve developing a user-friendly interface that can be used by healthcare providers to input patient data and receive risk assessments.

## Objectives

## The main objectives of the heart disease prediction system are:

## To develop a machine learning algorithm that can accurately predict the likelihood of a patient developing heart disease based on their demographic, lifestyle, and medical history data.

## To build a user-friendly interface that allows healthcare providers to input patient data and receive risk assessments.

## To identify risk factors associated with heart disease and provide recommendations for patients to mitigate their risk.

## Features

## The heart disease prediction system will have the following features:

## User authentication and authorization to ensure patient data is kept confidential.

## A user-friendly interface for healthcare providers to input patient data.

## Machine learning algorithms that analyze patient data to identify risk factors associated with heart disease.

## A risk assessment report that provides a probability score of a patient developing heart disease.

## Recommendations for patients to mitigate their risk of heart disease.

## The ability to store patient data securely and retrieve it for future assessments.

## Deliverables

## The following deliverables will be provided upon completion of the heart disease prediction system:

## A fully functional heart disease prediction system.

## User documentation

## 3. Requirements: -

* Hardware Requirements

1. Windows system i5 11th gen

* Software Requirements

1.Jupyter Notebook

2.Google Collaboratory

3.Anaconda Package Manager

4.UCI dataset

5. GPT - 3 generative model

**STUDENTS DETAILS**

|  |  |  |
| --- | --- | --- |
| **Name** | **UID** | **Signature** |
| Satyam Kumar Singh | 21BCS11016 |  |
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**APPROVAL AND AUTHORITY TO PROCEED**

We approve the project as described above, and authorize the team to proceed.

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| --- | --- | --- |
| **Name** | **Title** | **Signature**  **(With Date)** |
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