







# TNSDC Virtual Internship Program-2023

## PROJECT PRESENTATION



Personal Finance and Health management system using machine learning in python

### Created by:

Team Name: KIT YOUNGSTER'S

Name: **ARAVINDH M** 

Dept: ECE

Phone No: 9597886909

Mail ID: aravindh.ap2011@gmail.com

College: KIT-KALAIGNAR KARUNANIDHI INSTITUTE

**OF TECHNOLOGY** 

#### **ABSTRACT**

- ➤ This project is a personal finance and health management system that utilizes machine learning algorithms to predict various outcomes related to health and finance.
- ➤ The project aims to help users make informed decisions about their finances and health by providing them with accurate predictions based on their personal data.
- The system includes several modules such as disease prediction, loan approval prediction, credit card scores prediction, insurance amount prediction, and stock market price prediction. The disease prediction module uses machine learning models to predict the likelihood of a user developing various diseases such as heart disease, breast cancer, liver disease, and diabetes.
- ➤ The loan approval prediction module uses machine learning algorithms to predict the probability of a user's loan application being approved or rejected by a bank. The credit card score prediction module predicts a user's credit score based on their past credit history. The insurance amount prediction module predicts the amount of insurance coverage a user needs based on their personal information.
- ➤ Finally, the stock market price prediction module uses machine learning models to predict the prices of various stocks based on historical data. This project aims to provide users with a comprehensive personal finance and health management solution that leverages machine learning algorithms to improve decision making and increase financial and health-related outcomes.

#### **OBJECTIVE**

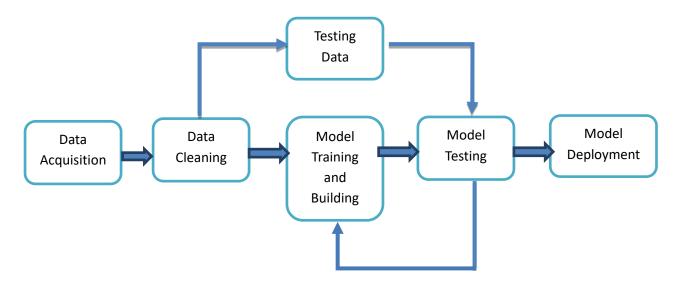
- The objective of this project is to develop a web-based application for personal finance and health management using machine learning in Python.
- The application aims to help users manage their finances and health by providing personalized recommendations based on their data. It includes

- features such as prediction of financial outcomes, disease risk assessment, and personalized health recommendations.
- The application uses machine learning algorithms to analyse the user's data and provide insights and recommendations.
- The goal is to create a comprehensive platform that can help users make informed decisions about their finances and health.

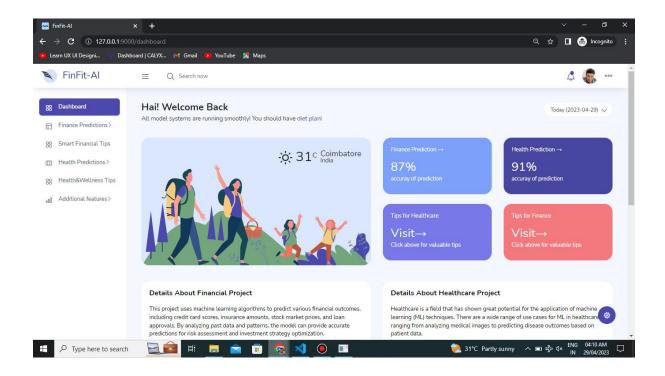
#### Why machine learning use in this project?

- ❖ In this project, machine learning algorithms are used for predicting health outcomes and financial behaviours.
- ❖ The system takes input data related to a person's medical and financial history and uses it to train different models for predicting outcomes such as the likelihood of developing a disease, credit score prediction, insurance amount prediction, stock market price prediction, and loan approval prediction.
- ❖ The user can then input their personal information and the system will use the trained models to provide predictions and insights for making informed decisions related to their health and finances.
- ❖ The machine learning algorithms used in this project include decision trees, logistic regression, support vector machines, random forests, and gradient boosting and etc..

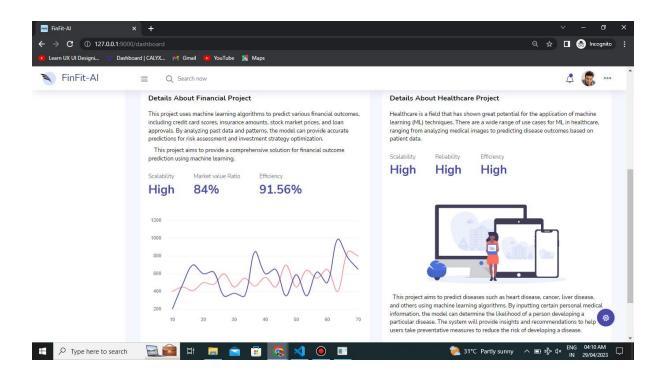
#### **MACHINE LEARNING PROCESS**



## **Project Screenshots** (with outputs)



## **Dashboard Pages**



#### Project contains features are,

## Finance related Pages

- 1. Health insurance amount Prediction
- 2. Stock market price Prediction & analysing
- 3. Loan Approval Prediction
- 4. Credit card Scoring Prediction

## **Health related Pages**

- 1. Hearth Disease Prediction
- 2. Liver Disease Prediction
- 3. Diabetes Prediction
- 4. Breast Cancer Prediction
- 5. Kidney Disease Prediction

## Tips Pages

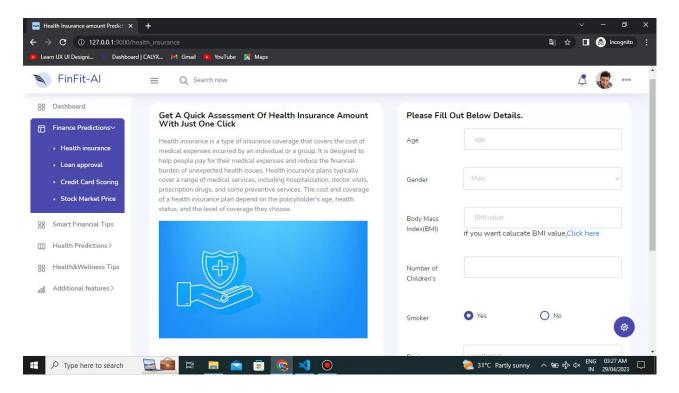
- 1. Smart Finance Tips
- 2. Health & wellness Tips

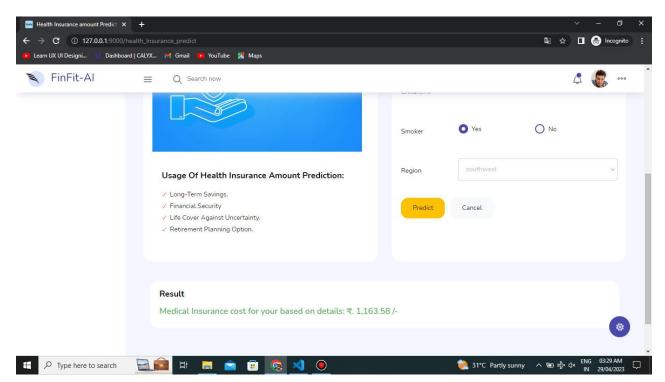
## Additional Pages

- **1. BMI**
- **2. BMR**
- 3. Diet Plan Tracker

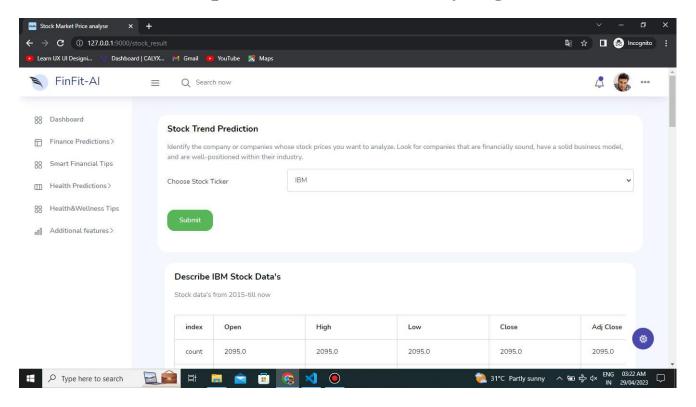
## Finance related Pages

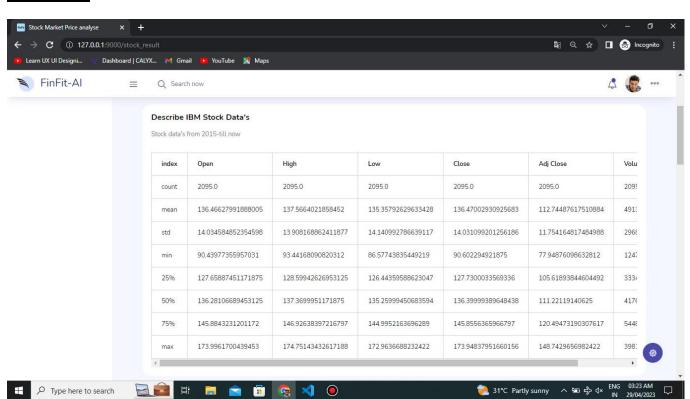
#### 1. Health insurance amount Prediction

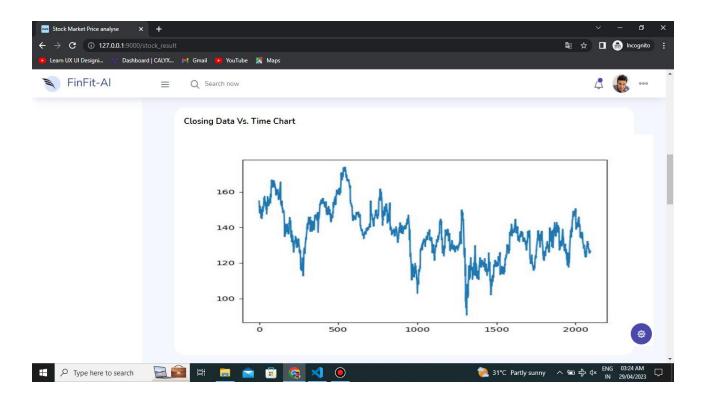


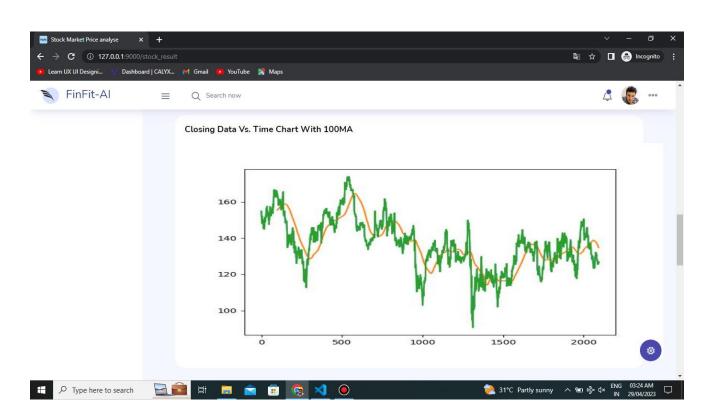


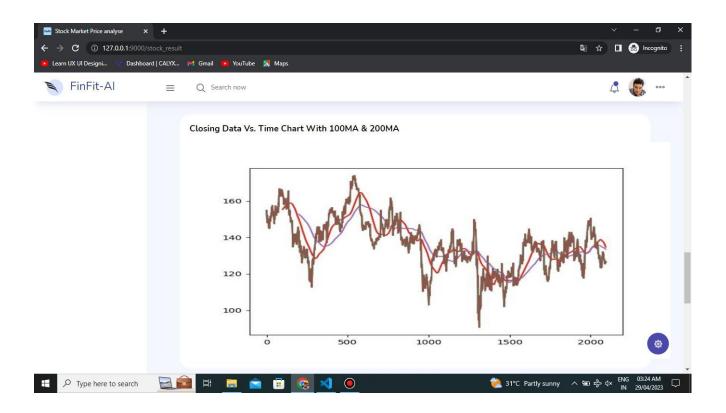
## 2. Stock market price Prediction & analysing

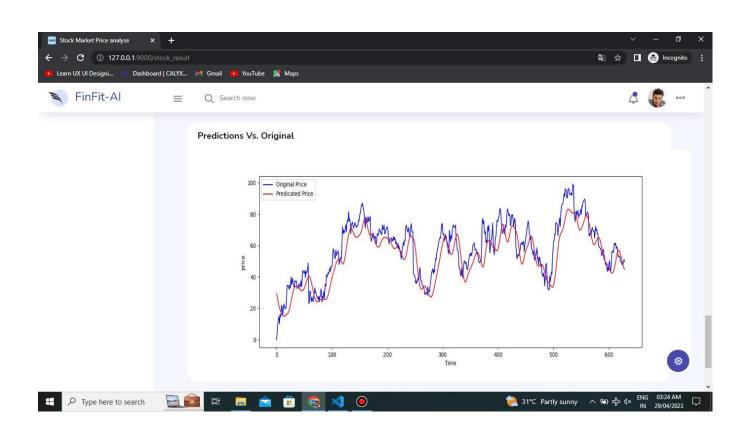




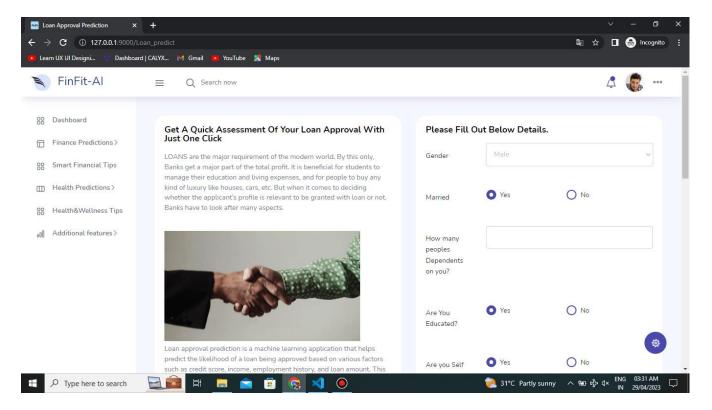


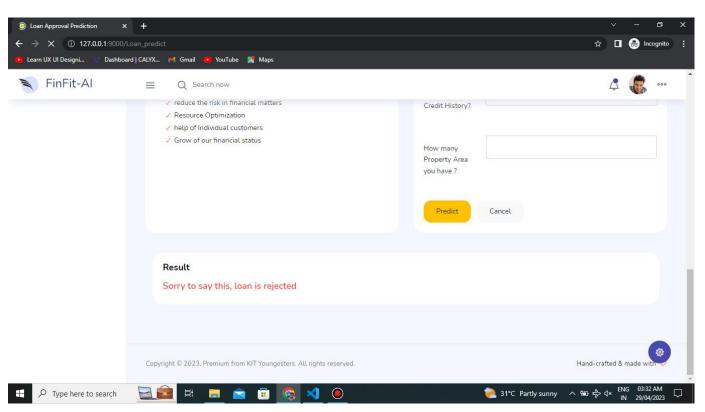




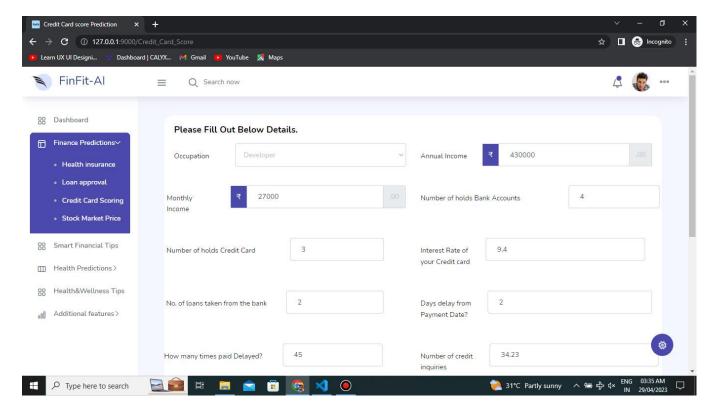


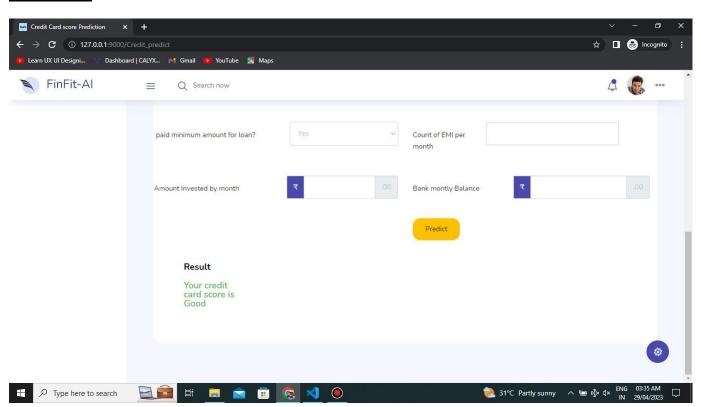
### 3. Loan Approval Prediction





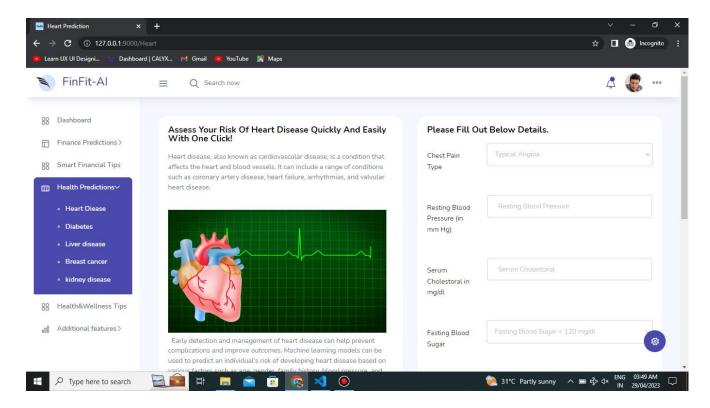
## 4. Credit card Scoring Prediction

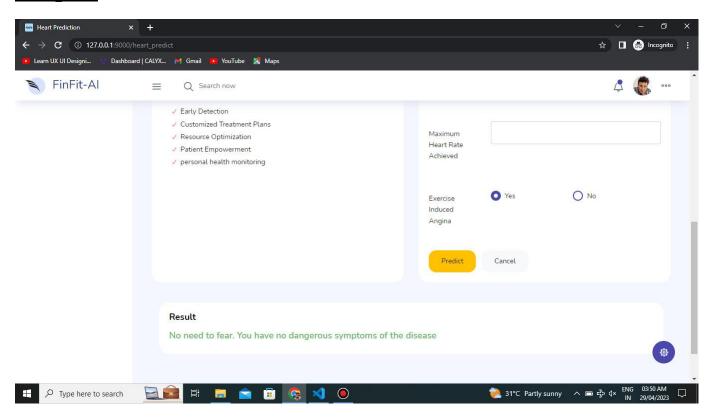




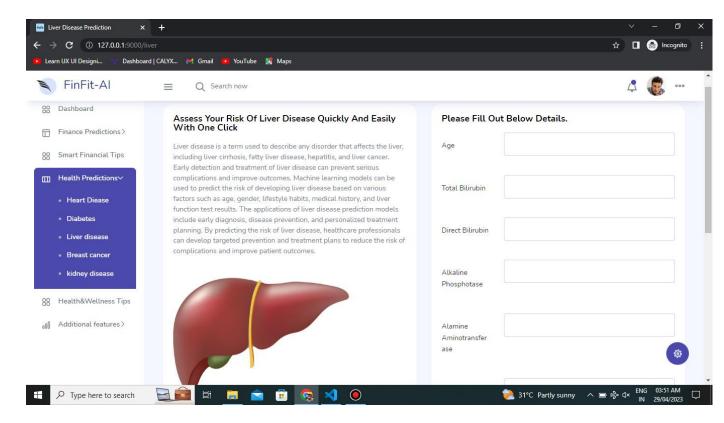
## **Health related Pages**

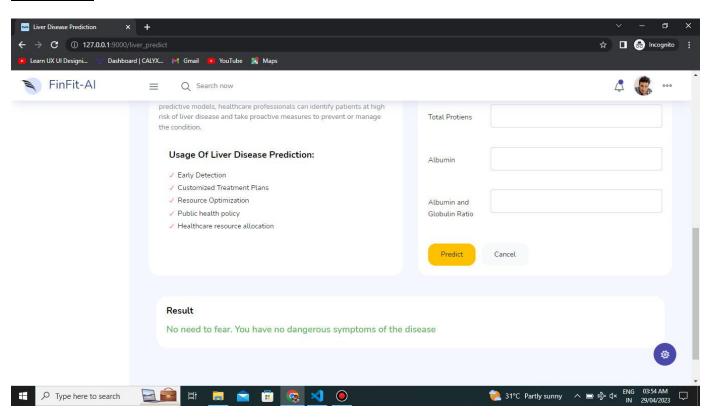
#### 1. Hearth Disease Prediction



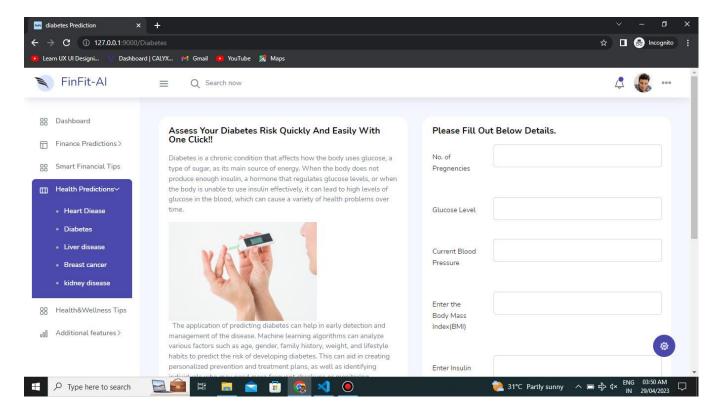


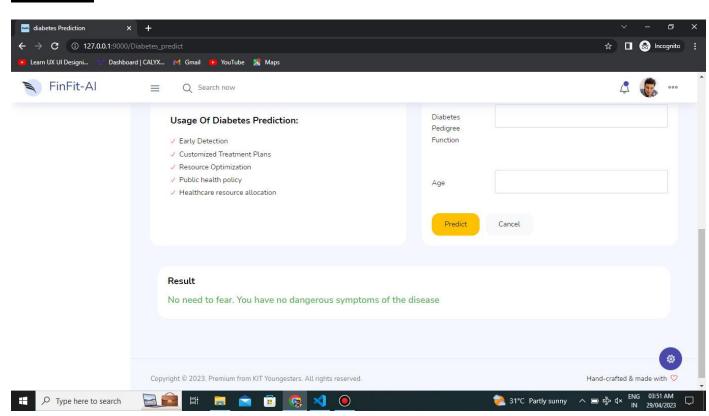
#### 2. Liver Disease Prediction



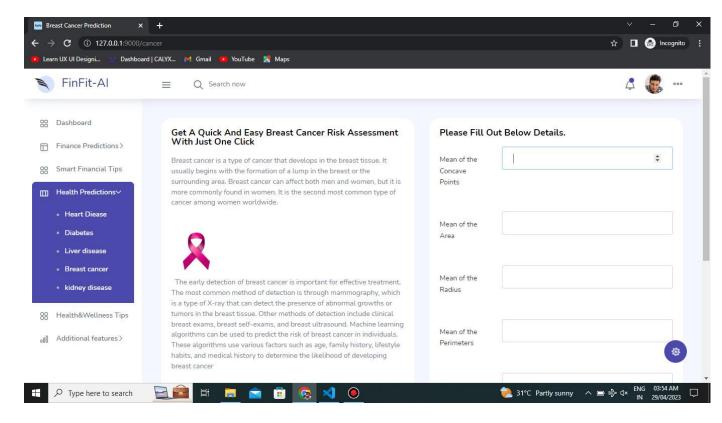


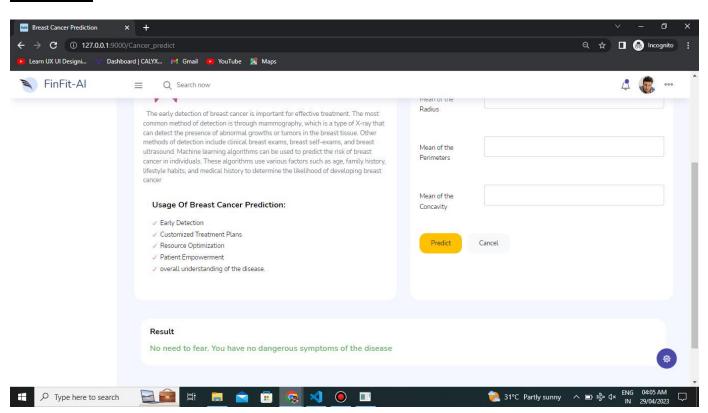
#### 3. Diabetes Prediction



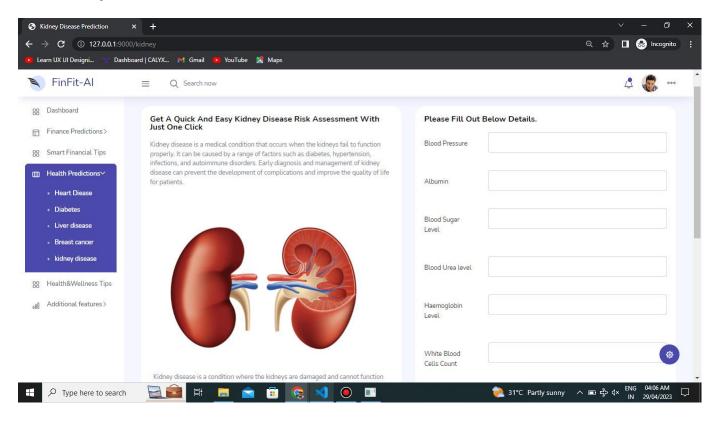


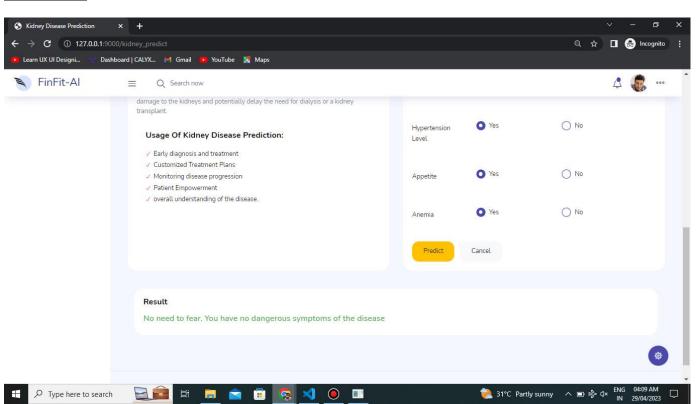
#### **4.Breast Cancer Prediction**





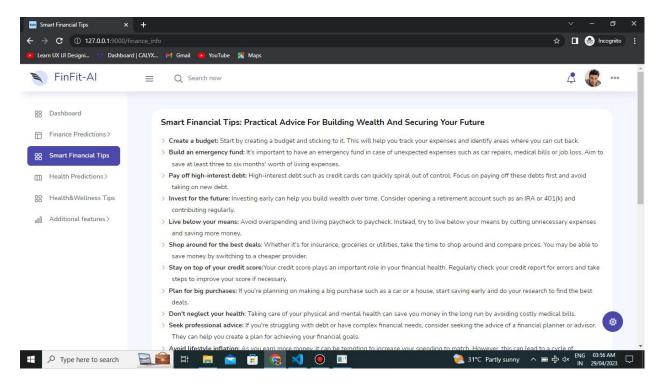
### **5.Kidney Disease Prediction**



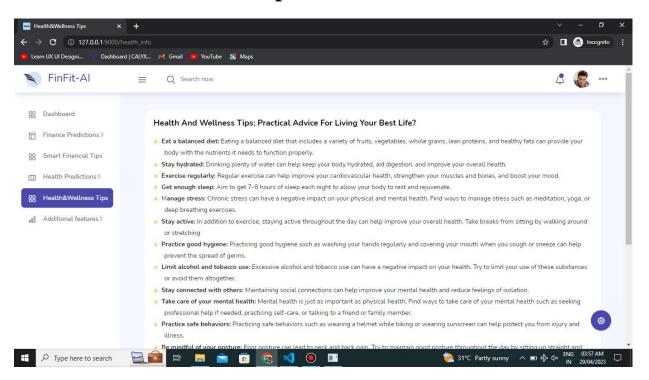


## Tips Pages

### 1. Smart Finance Tips

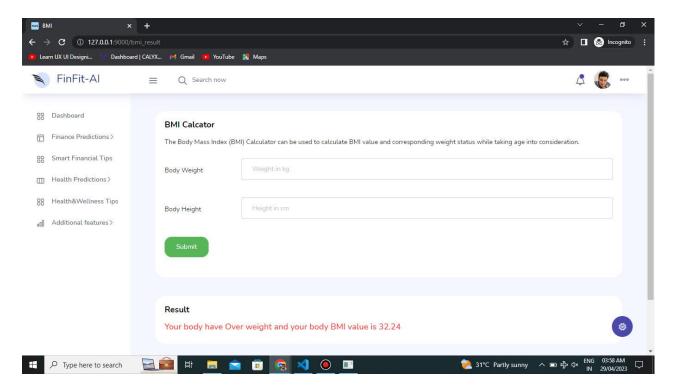


### 2. Health & wellness Tips

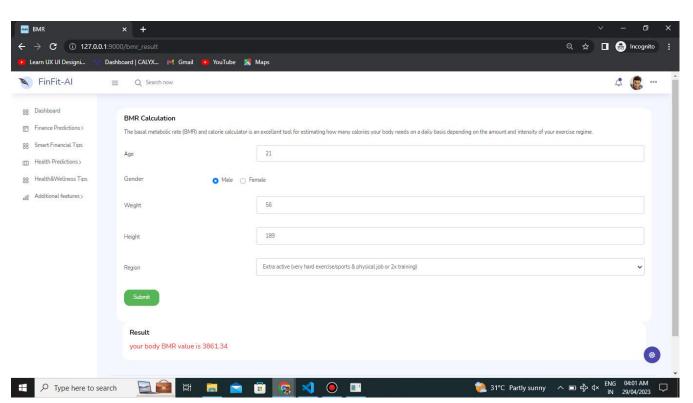


# **Additional Pages**

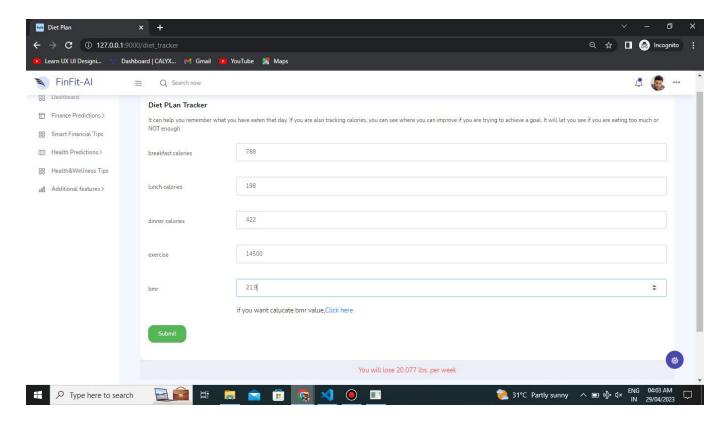
#### **1. BMI**



#### **2. BMR**



#### 3. Diet Plan Tracker



• Project Code:

https://drive.google.com/drive/folders/1dGeCHnLID NbxUoGJhP8g1wLVWf9oaHk8?usp=sharing

• Demonstration Video:

https://youtu.be/oe5JsUQQIS4