

AI Personal Health Advisor - Project Documentation

Project Overview

A smart AI-powered system where users can input their symptoms and receive probable conditions (e.g., cold, flu). The platform also offers suggestions such as remedies, medication reminders, health tips tailored to user profile (age, gender, history), and emergency alert functionality.

Tech Stack

Frontend: HTML, CSS, JavaScript

Backend: Flask

ML Model: Python (scikit-learn)

Storage: JSON or SQL Database

Hosting: Vercel (Frontend), Render (Backend)

Key Features

1. Symptom Checker
2. Chatbot for Quick Questions
3. Medicine Reminder System
4. Emergency Alert
5. Health Tips Dashboard

Modules Breakdown

- Symptom Prediction: User selects symptoms; prediction done via ML model
- Chatbot: FAQs and suggestions
- Health Reminder: Set daily medication reminders
- Tips & Advice: Health improvement content

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- Emergency Alert: SOS feature to alert guardians or hospital

ML Model Overview

The model takes symptom input and predicts top 3 likely conditions with confidence levels.

Example using DecisionTreeClassifier from sklearn:

```
from sklearn.tree import DecisionTreeClassifier

model = DecisionTreeClassifier()

model.fit(X_train, y_train)

symptoms = [1, 0, 1]

predicted = model.predict([symptoms])
```

UI Flow

- Home Page
- Symptom Input Page
- Prediction Result Page
- Reminders & Health Tips Dashboard
- Contact Doctor / Emergency Section

Extra Features

- Speech input for symptoms
- OpenAI API integration
- Health tracking with Chart.js
- BMI Calculator
- Online deployment