HEALTH PREDICT

Al-Powered Disease Prediction Web App

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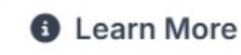




Smart Disease Prediction

Advanced machine learning algorithms analyze your symptoms to provide instant, accurate disease prediction with confidence scores

9 Start Prediction



98%

5K+

24/7

Accuracy

Predictions

Available

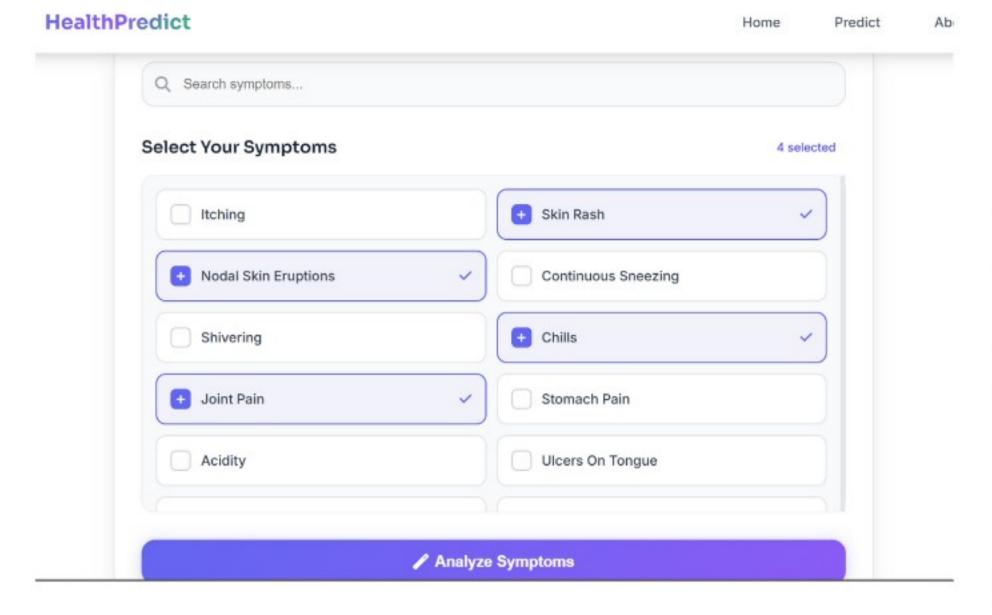
ROLE & INTRODUCTION

• Team Size: 3 Members

• My Role: Frontend Developer + Random Forest Model

• Challenges Faced: Model Accuracy, Symptom Mapping, Frontend-Backend Integration

• **Solutions:** Data Cleaning, Weighted Features, API Integration





PROJECT FLOW

The user selects symptoms

Users interact with the app's interface to search and select symptoms from a real-time filtered list.

Input passed to the ML model

Selected symptoms are sent to the machine learning model (Naive Bayes or Random Forest) via Flask backend for analysis.

Disease prediction with confidence

The model returns the top 3 predicted diseases with their confidence scores, shown to the user in a clean UI.

TECH STACK & PROJECT OVERVIEW

Technologies:

Python, Flask, HTML5, CSS3, JavaScript, Pandas, Joblib

ML Models Used:

Random Forest & Naive Bayes

Overview:

Predicts diseases using symptom inputs; shows top 3 predictions with accuracy

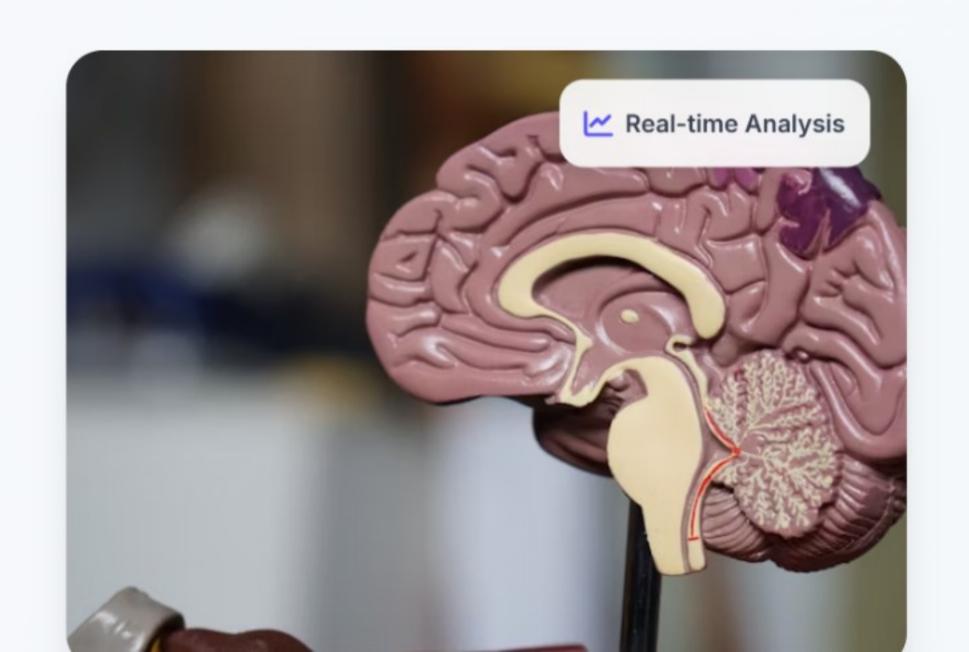


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1 Learn More



ROLE & CONTRIBUTIONS

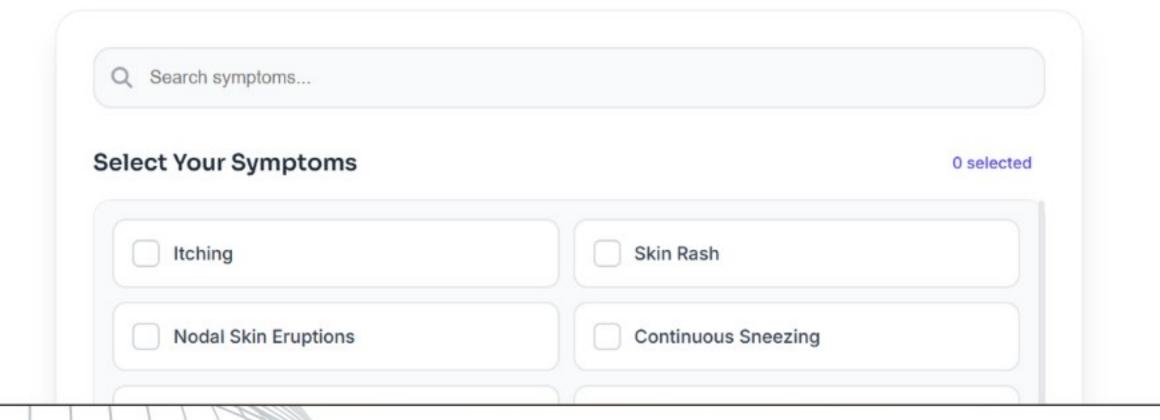
- Developed Random Forest model and trained it on symptom-disease dataset
- Integrated ML logic with Flask backend

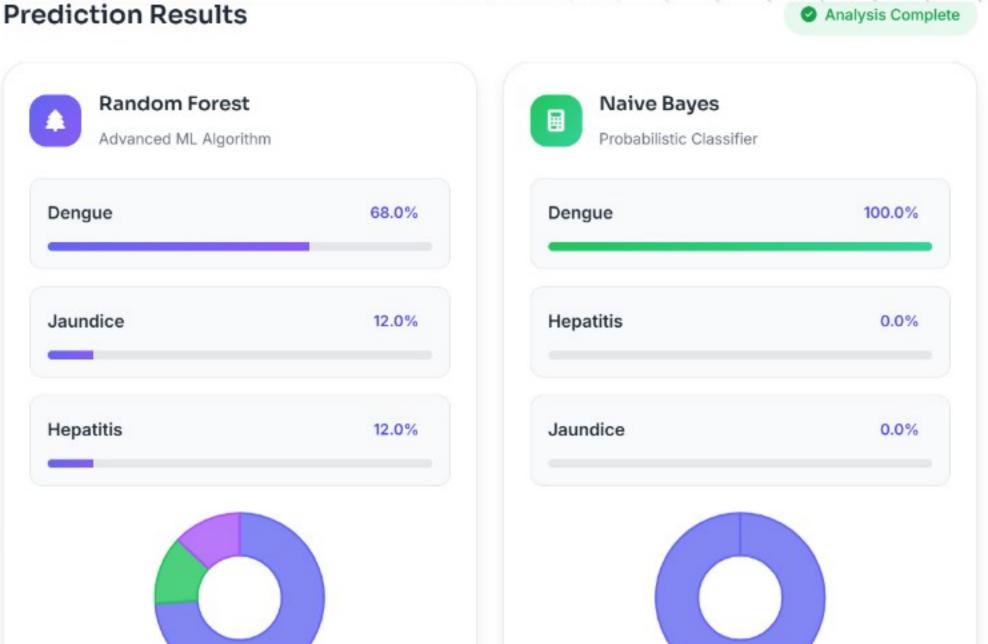


Disease Prediction Engine

Al Diagnosis

Select your symptoms below to get instant Al-powered predictions





Analysis Complet

- Tuned model for optimal accuracy
- Worked on API to connect frontend with ML output. Worked on frontend interactions, responsiveness, and testing

CONCLUSION

Powered by Advanced Al

Our system combines multiple machine learning algorithms for accurate predictions



Machine Learning

Advanced Random Forest and Naive Bayes algorithms working together for



High Accuracy

Multiple models provide reliable predictions with confidence scores and



Privacy First

Your health data is processed securely and never stored, ensuring complete

Live Demo: https://healthpredict-1.onrender.com/

Thankyou