HEALTH PREDICT

AI-Powered Disease Prediction Web App

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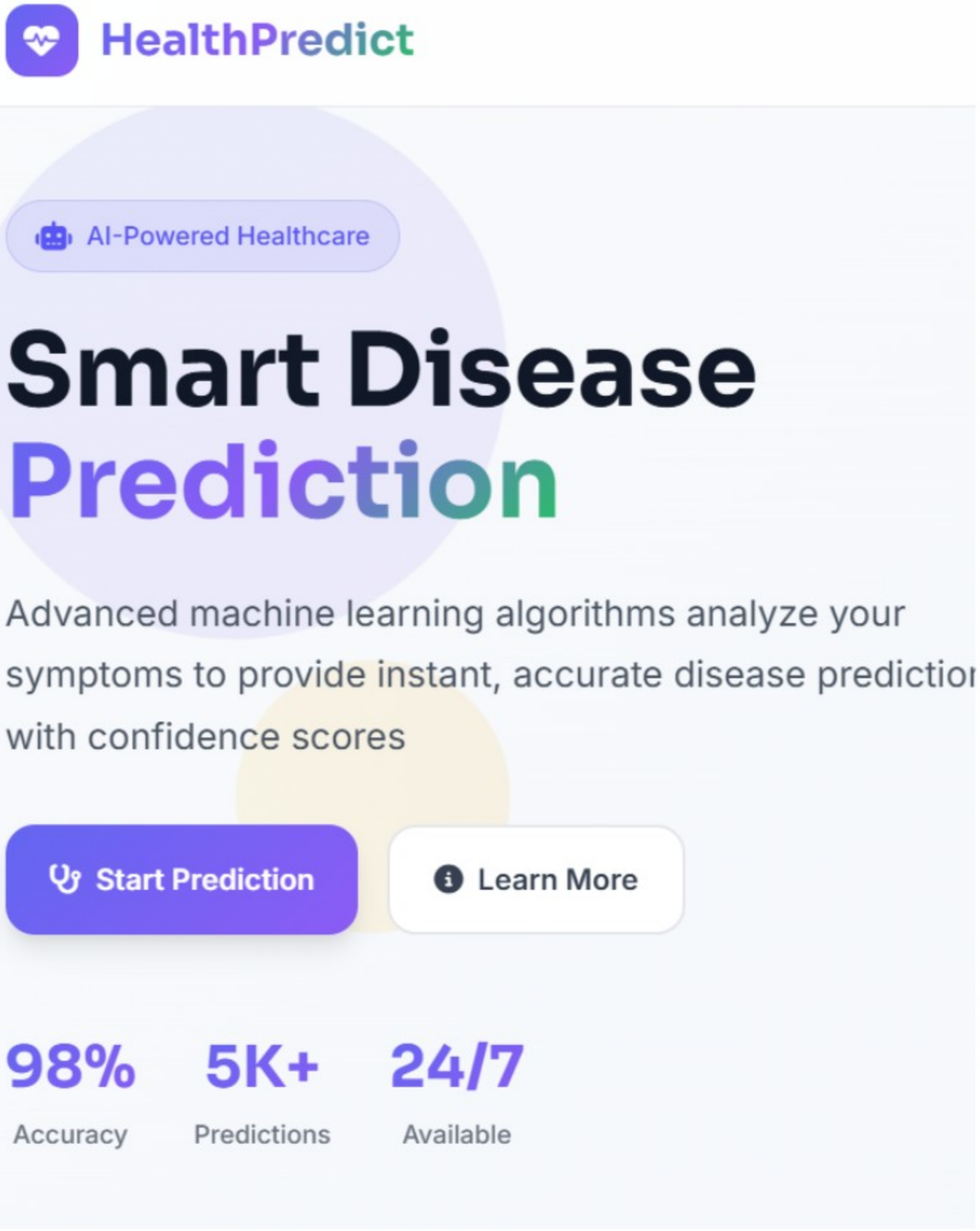
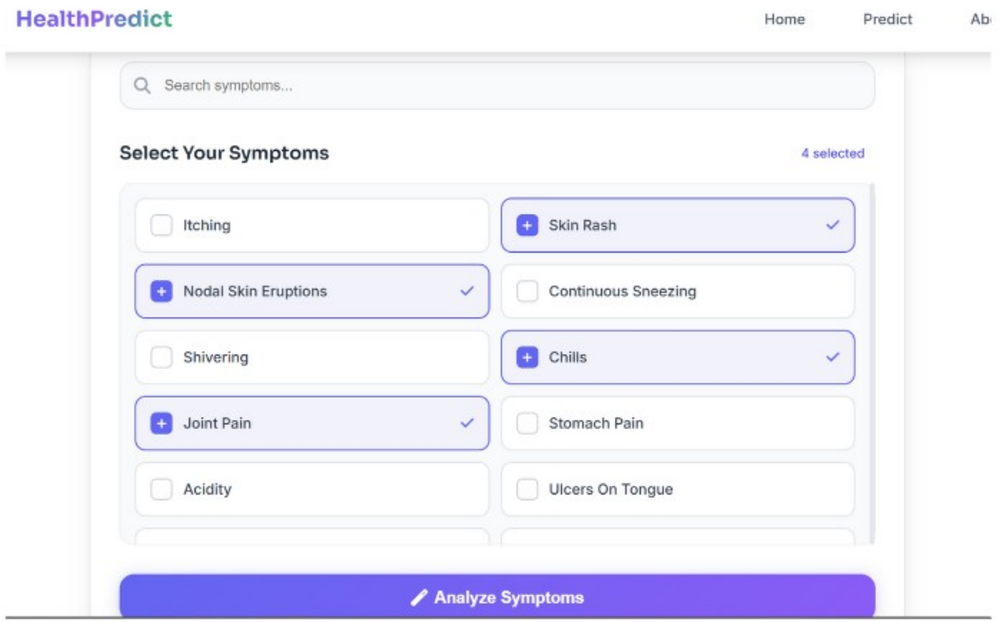


ROLE & INTRODUCTION

- **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:

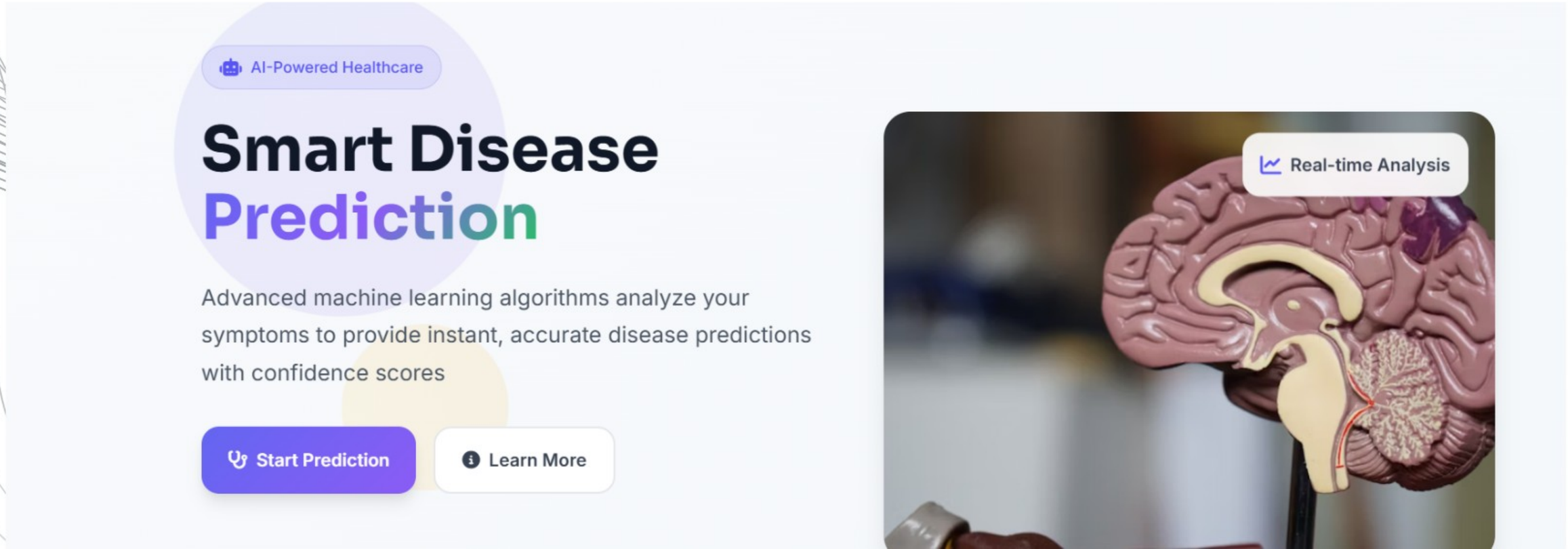
Python, Flask, HTML5, CSS3, JavaScript, Pandas, Joblib

ML Models Used:

Random Forest & Naive Bayes

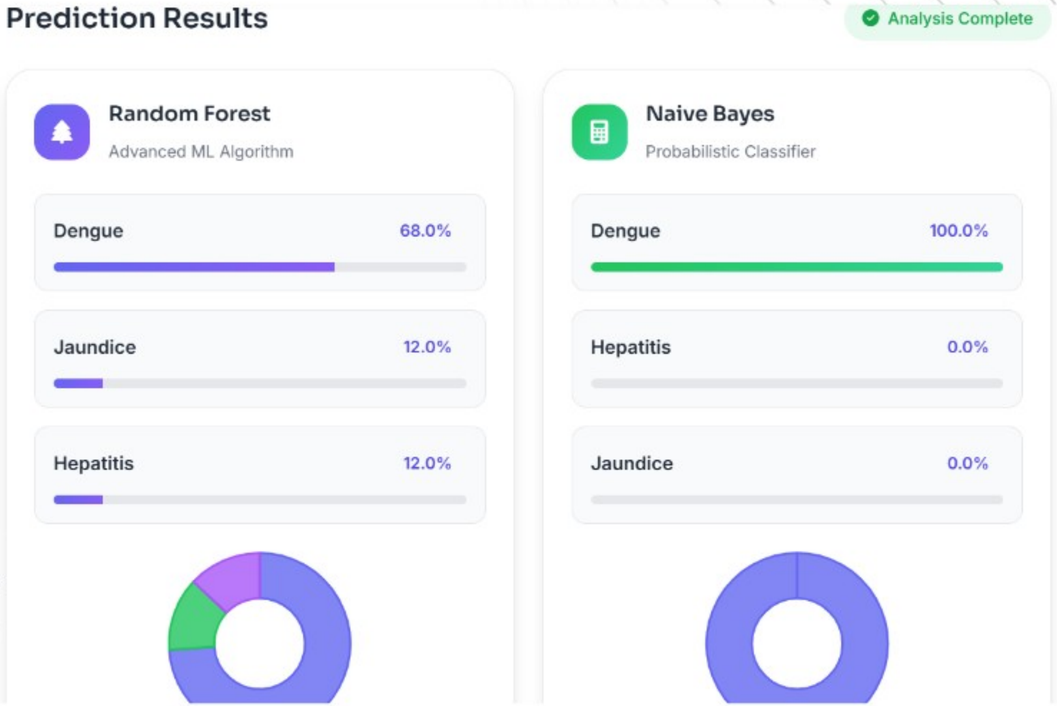
Overview:

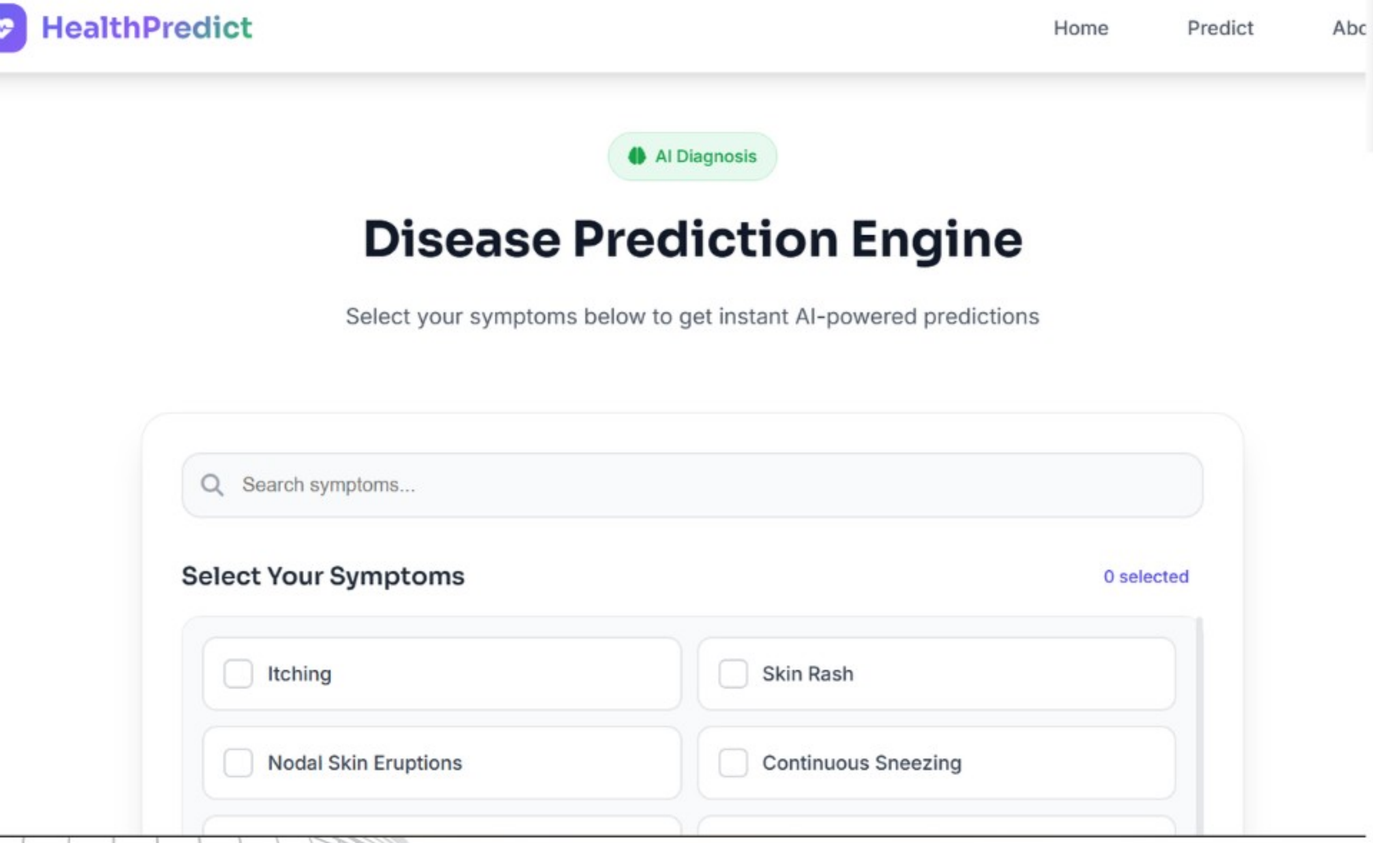
Predicts diseases using symptom inputs; shows top 3 predictions with accuracy



ROLE & CONTRIBUTIONS

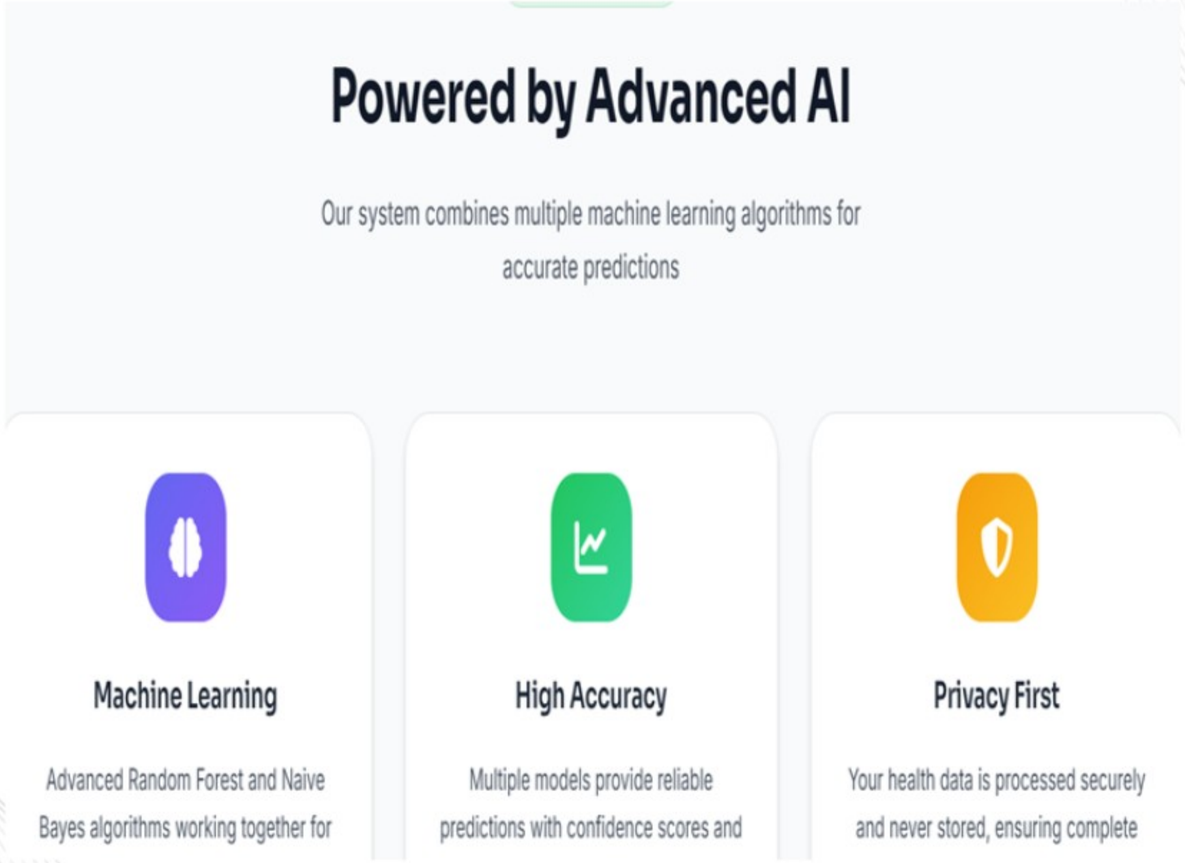
- Developed Random Forest model and trained it on symptom-disease dataset
- Integrated ML logic with Flask backend





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

CONCLUSION



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

Thankyou