AILO:
DISEASE PREDICTION

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Introduction

- Healthcare is one of the most crucial sectors needing digital transformation.
- Early disease prediction helps in quick diagnosis and treatment.
- This project aims to develop a web application that predicts diseases based on input symptoms using AI/ML techniques.

Objectives

- Accept user-reported symptoms via a web interface.
- Predict the most probable disease.
- Display relevant disease details and suggested precautions.
- Ensure user-friendly and responsive interface.

Tech Stack

- Frontend: HTML, CSS, JavaScript
- Backend: Python (Flask or Django)
- Machine Learning: Scikit-learn / Pandas
- Tools: Jupyter Notebook, VS Code

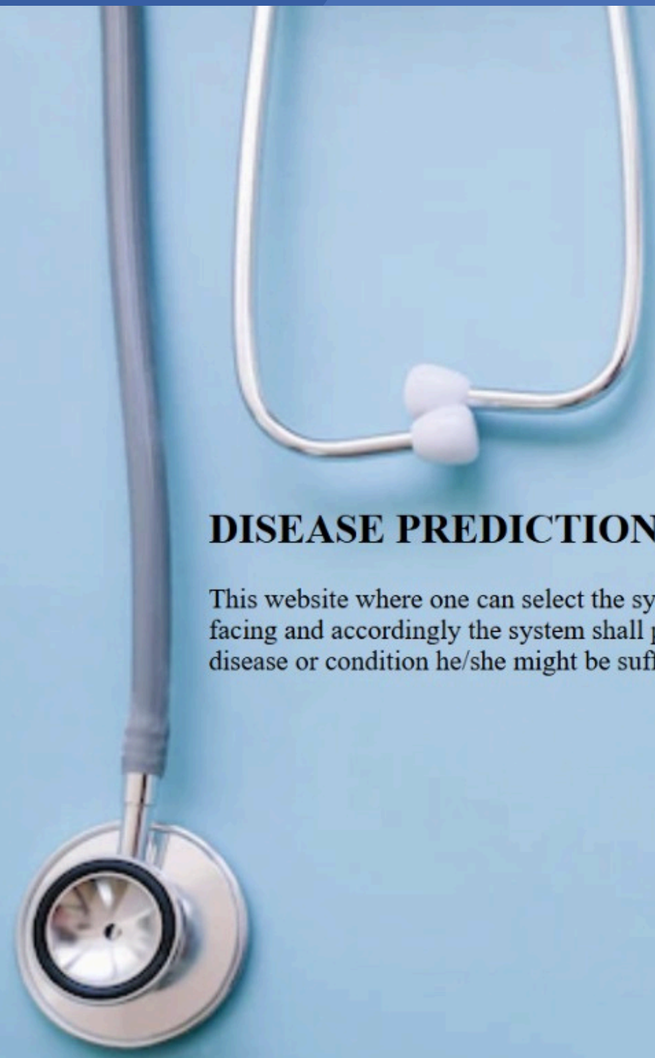
MACHINE LEARNING ALGORITHMS

Algorithms Used:

- Decision Tree
- Random Forest
- Naive Bayes (optional)

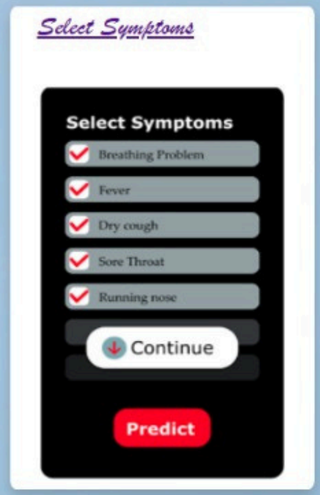
ALGORITHM EXPLAINATION

1. DECISION TREE : A **decision tree** splits data into branches based on feature values, creating a tree-like structure.
2. RANDOM FOREST : Random forest is an ensemble method that combines multiple decision trees.
3. NAIVE BAYES : Based on Bayes' theorem and assumes all features are independent of each other .



DISEASE PREDICTION SYSTEM

This website where one can select the symptoms he/she is facing and accordingly the system shall predict a certain disease or condition he/she might be suffering from.



Select Symptoms

mild_fever

yellow_urine

yellowing_of_eyes

acute_liver_failure

fluid_overload

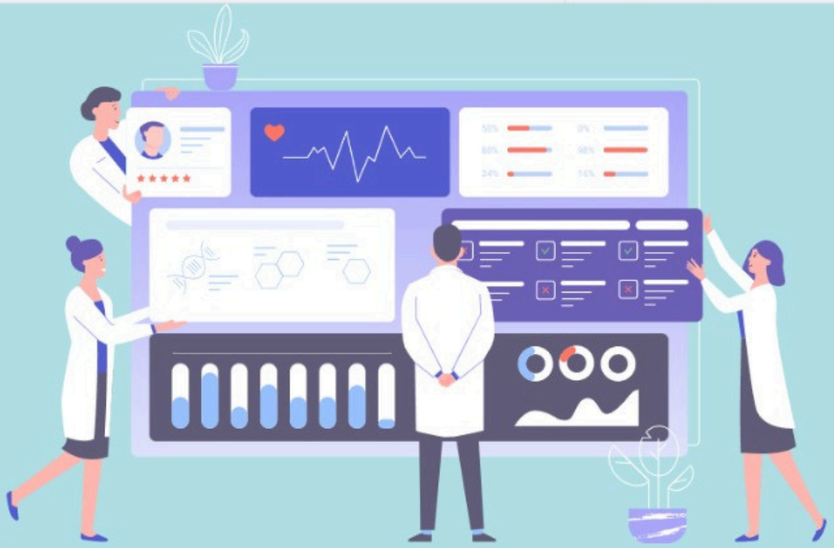
Predict

Disease Predictor

Home

Final Predictions

Alogrithm	Prediction
DECISION TREE	Common Cold
RANDOM FOREST	Common Cold
NAVIE BAYES	hepatitis A



THANK YOU