





HackOrbit 2025

- TEAM 420

THEME & PROBLEM STATEMENT

• In many regions, patients struggle to judge the severity of their symptoms, leading to unnecessary hospital visits or delayed treatment. Limited access to medical expertise in remote areas further worsens the issue.

• There is a need for an AI-based system that can analyze symptoms, predict possible diseases, suggest basic treatments, and advise whether medical consultation is necessary — something current healthcare systems lack.

PROPOSED SOLUTION

This project aims to develop an AI/ML-based health assistant that car

- Take user-input symptoms as data.
- Predict the most probable disease using trained ML models.
- Recommend basic treatments (if applicable).
- Determine whether the patient needs to consult a doctor urgently or not.

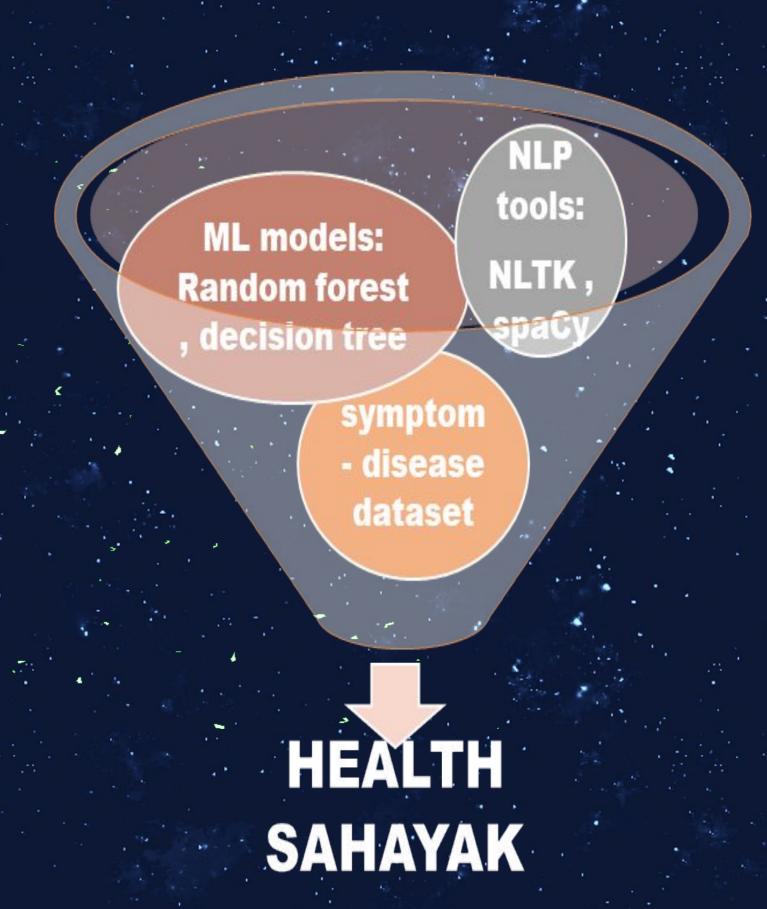
By leveraging AI/ML, this system can enhance healthcare accessibility, reduce diagnostic delay, and assist users in making informed decisions about their health, especially in early or unclear symptom stages.

FLOWCHART / DIAGRAM

user enters the symptoms

model analyzes and predictss disease

options and provides output & guidance



FLOWCHART / DIAGRAM Explainer text

 This feature allows user to input data in human language and let the model understand the ke features

> NLP **PROCESSING**

ML **MODELS** decides on basis of a symptom, possible disease and predicts them only if the matching level is above a particular threshhold level, if not it prompts some symptoms on its own depending on the relevant diseases to gather more input

OUTPUT

PREDICTION

 It finally recommends if a doctor visit is necessary or not, basic and first aid medication for the usere

URGENCY

CLASSIFIER

If a disease is predicted, it decides on its level of severity based on the matching level and symptoms.

- Symptom-Based Disease Prediction using ML algorithms.
- Basic Treatment Recommendations for non-critical cases.
- Urgency Detection to advise if doctor consultation is needed.
- ** Novelty
- ☐ All-in-One Assistant: Diagnosis, treatment, and urgency in one tool.
- ☐ Supports Remote Areas with limited medical access.
- ☐ Al-Driven Early Guidance before visiting a doctor.

DRAWBACK AND SHOWSTOPPER

DRAWBACK

CHALLENGES

ACCURACY OF DIAGNOSIS WITH LIMITED INPUT

ETHICAL & LEGAL ISSUES NEED FOR CONSTANT MODEL UPDATE

HANDLING CRITICAL EDGE CASES SAFELY

NEED FOR CONSTANT DATASET UPDATE Future Scope includes Voicebased interaction,Integration with wearable devices ,Multi-language support ,Integration with telemedicine platforms

An AI/ML-based health assistant can transform early-stage medical decision-making.Enhances accessibility, saves resources, and empowers users.A step toward democratizing healthcare

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