PYTHON–II PROJECT (CSD4523)

DISEASE PREDICTOR USING MACHINE LEARNING
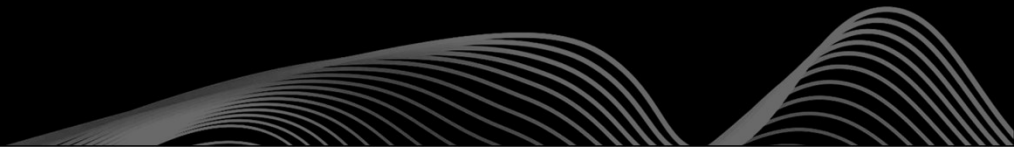
TEAM MEMBERS

S.no	Name	Student ID
1	Shivanshu Kapila	C0893495
2	Raghav Dadhwal	C0891425
3	Rishabh Kapoor	C0893494
4	Pavneet Singh	C0897832
5	Gaganjeet Bhardwaj	C0897827
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INTRODUCTION

The **"Disease Predictor using Machine Learning"** project is a straightforward tool for predicting illnesses based on symptoms. With easy-to-use interfaces and smart algorithms, this project aims to identify diseases accurately.

PROJECT SCOPE

On High level, our project will include following tasks, however there could be changes as per the project demands -

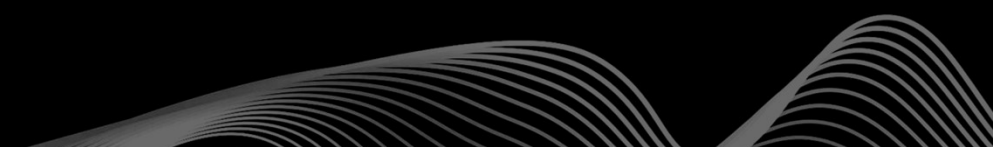|	
Graphical User Interface (GUI)	Design a simple Tkinter interface with fields for patient name and symptom selection for user-friendly interaction.
Symptom-Based Prediction	Integrate symptom-disease list for user-input disease prediction via GUI.
Machine Learning Models	Apply Decision Trees, Random Forests, and Naive Bayes classifiers; train them on a dataset with symptom-disease associations.
Prediction Display	Show predicted diseases in designated text fields for each model, offering a clear outcome.
Ease of Integration	Create a modular and adaptable project design for easy integration with additional datasets or future improvements.

PROJECT PLANNING

- Shivanshu

  ➢ Assign roles and tasks.

  ➢ Coding for ML Algorithms.

  ➢ Oversee overall progress.

- Raghav and Gagan

  ➢ UI Design Layout.

  ➢ Code the GUI using Tkinter based on the finalized design.

  ➢ Collaborate with the GUI Designer and Integrator.

PROJECT PLANNING

- Pavneet and Rishabh

  - Explore and understand the provided CSV files (Training.csv and Testing.csv).

  - Handle data preprocessing tasks, ensuring that the data is ready for training machine learning models.

  - Coding tasks related to data handling, file operations and collaborate with other team members to maintain a consistent and well-documented codebase.

- Himankur

  - Conduct initial tests to ensure the GUI functions correctly.

  - Collaborate with the coders and assist accordingly.

  - Final Testing and Ensure all components work together effectively.

GANTT CHART

TASKS	01-Dec	02-Dec	03-Dec	04-Dec	05-Dec	06-Dec	07-Dec	08-Dec	09-Dec	10-Dec	11-Dec
Planning	🟩	🟩									
GUI Design			🟩	🟩							
Dataset Expoloration and Preprocessing					🟩	🟩					
Model and Algorithms Implementation							🟨	🟨			
GUI Developmenet							🟨	🟨			
Integration									🟥		
Testing									🟥	🟥	
Review and Finalization											🟥

🟩	Done
🟨	In Progress
🟥	Pending

THANK YOU!