This repository contains the complete codebase for the Multiple Disease Prediction System built with Streamlit,

along with machine learning training notebooks and datasets.

It predicts the risk of multiple diseases (Diabetes, Heart Disease, Parkinson's) using trained ML models,

and provides additional features like doctor suggestion and personalized diet plans.

Project Structure

multiple-disease-prediction-app/

app.py - Main Streamlit app

requirements.txt - Python libraries needed

saved_models/ - Pre-trained ML models

diabetes_model.sav

heart_disease_model.sav

parkinsons model.sav

datasets/ - Data used to train the models

diabetes.csv

heart.csv

parkinsons.csv

notebooks/ - Jupyter Notebooks to train models

Diabetes_Prediction.ipynb

Heart_Disease_Prediction.ipynb

Parkinsons_Prediction.ipynb

README.md
Features
Predict multiple diseases:
- Diabetes
- Heart Disease
- Parkinson's
Doctor Suggestion System:
- City, State, Country selection with dynamic dropdowns.
- Manual city input with auto country/state fill.
Personalized Diet Plans:
- Based on diet type, preference, budget.
Modern UI with blur background.

Setup Instructions
1. Install dependencies:
pip install -r requirements.txt
2. For notohooko
2. For notebooks:

pip install pandas numpy scikit-learn matplotlib seaborn jupyter

3. Run the app:
streamlit run app.py
ML Models
- Diabetes : Logistic Regression (~78%)
- Heart Disease : Random Forest (~85%)
- Parkinson's : SVM (~88%)
How to Retrain Models
Open corresponding notebook, retrain, and replace .sav file in saved_models/
Tech Stack
- Python, Streamlit, scikit-learn, pandas, numpy, Jupyter, HTML/CSS/JS
Future Scope
- Integrate real-time doctor APIs
- Build recommendation engine for diets

- Add user login & history tracking