



RUBIX'23_27_codeZillas

PROBLEM STATEMENT 02:

BEING A HEALTHCARE PROVIDER CAN BE EXHAUSTING AND HECTIC, HENCE A TOOL THAT SPECIFICALLY CATERS TO THE NEEDS OF DIFFERENT HEALTHCARE PROVIDERS COULD BE OF GREAT BENEFIT. CREATE A TOOL THAT HELPS HEALTHCARE PROVIDERS WITH DIAGNOSIS, DISEASE DETECTION, AND HAS USER FRIENDLY FEATURES FOR HEALTHCARE PROFESSIONALS. ONE CAN INTRODUCE FEATURES/ APPLICATIONS TO EASE PROCESSES OF HEALTHCARE ADMINISTRATION OR OPERATIONS. ANY INNOVATIVE FEATURE WHICH WILL ENHANCE THE HEALTHCARE INDUSTRY. SO USE AI /ML TOOLS TO CREATE AN INNOVATIVE SOLUTION FOR THIS SECTOR.

- IT SHOULD HELP WITH DISEASE DETECTION.
- IT SHOULD OPTIMIZE PRESCRIPTION AND CARRY OUT DIAGNOSTIC GENERATION THROUGH SPEECH OR HANDWRITTEN SCRIPT.
- SHOULD SUGGEST DOCTORS ON THE BASIS OF SURROUNDING FACILITIES AVAILABLE AND SERVICE REQUIRED.
- AVAILABLE LIC POLICY RECOMMENDATIONS SYSTEM.
- IT SHOULD HAVE A FIELD FAQs WITH A CHATBOT.

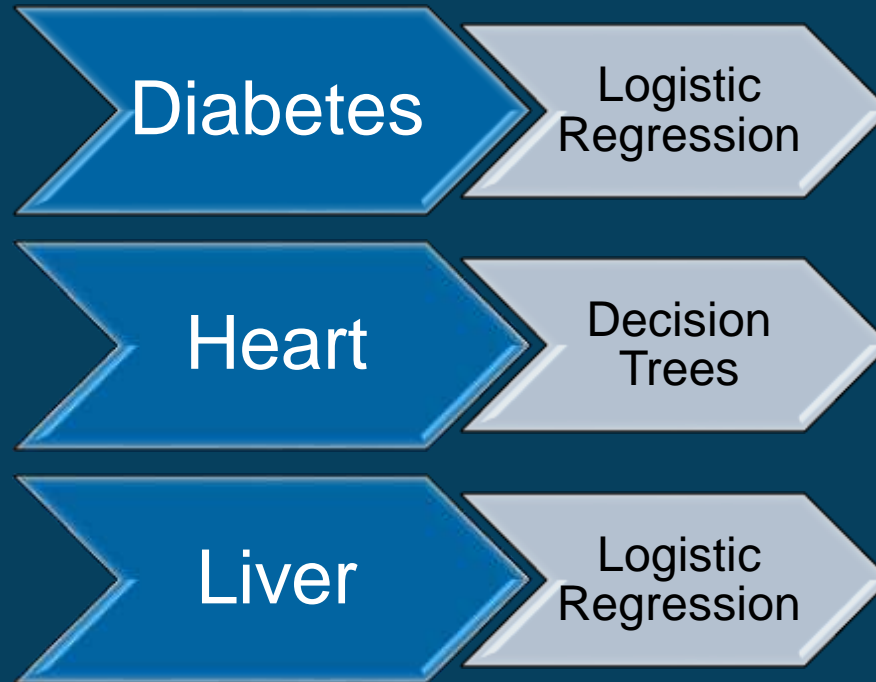
APPROACH:

1. Implementing various types of ML models and selection of the one with highest accuracy.
2. Deploying the results with the help of a WebApp.
3. A ChatBot that can prescribe homely remedies and recommend medical facilities.

MACHINE LEARNING MODELS USED:

- DECISION TREES.
- NAÏVE BAYES .
- SUPPORT VECTOR MACHINE(SVM).
- LOGISTIC REGRESSION.
- RANDOM FOREST CLASSIFICATION.
- KERNEL SVM.
- K- NEAREST NEIGHOURS.

DIESEASE DETECTION PREDICTION:



These are the most efficient models for respective disease.

CHATBOT using kommunicate:

→A HealthCare Tool to prescribe remedies for some common bodily problems like fever, wounds, and cuts, headaches ,ETC.

→This DocBot helps user with some homely remedies and suggests doctors, and helps book appointments according to their problems.

WEBAPP using streamlit :

→ Built a WebApp using streamlit which is an app framework in python.

→ streamlit is compatible with python libraries (numpy, scikit-learn, matplotlib, pandas, etc.).

CONCLUSION:

- We have used and learned different technologies, namely some python libraries, streamlit framework, and making a chatbot.
- Thus, we were able to create a effective solution.

The background features a dark blue field on the right and a light blue field on the left, separated by a diagonal line. A thin, dark blue line runs parallel to the diagonal, and a thin, light blue line with horizontal stripes runs parallel to the dark blue line.

Thank You.