

PYEXPO25

Genius innovation leaves behind a legacy...



Team ID : T054
Team Name : HashTech (Registered)
PS Number : PY065
PS Title : Smart Health Assistant Chatbot
Domain : NLP
Category : Software



Problem Statement:

TO DESIGN A CHATBOT FOR HEALTHCARE TO ASSIST PATIENTS UNDERSTANDING THEIR SYMPTOMS .

❖ **Delayed Medical Assistance :**

Patients struggle to understand symptoms and get timely healthcare advice.

❖ **Overburdened Medical Services :**

Hospitals and call center receive high volumes of inquiries, causing delays in response.

❖ **Target audience:**

Patients seeking quick health advice and medication reminders .

➤ **Goal :**

Provide users with quick access to basic healthcare assistance.



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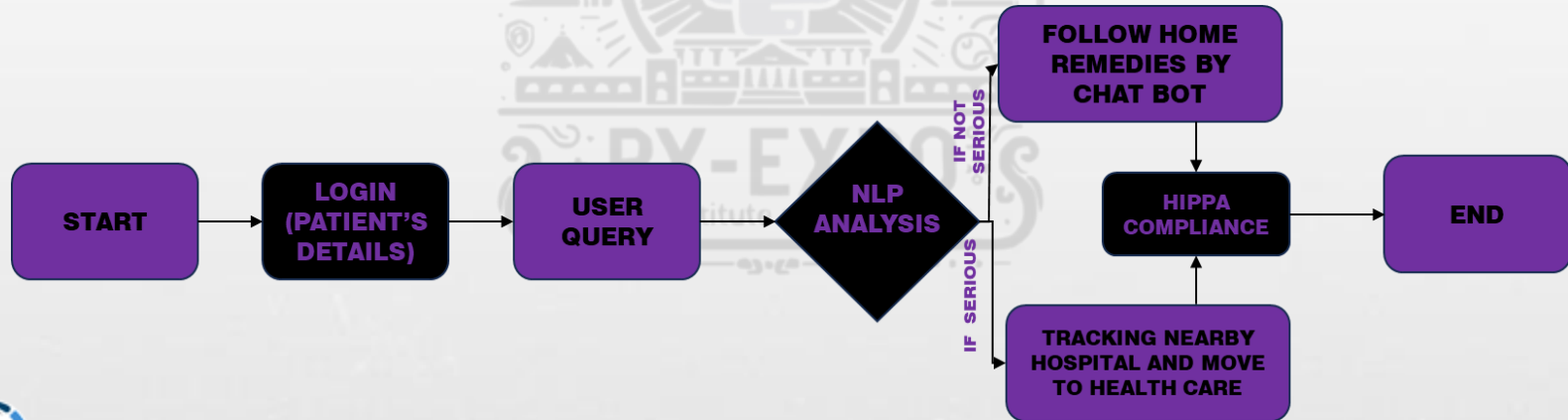
Proposed Solution and overview:

ADDRESS THE PROBLEM :

- ❖ Our chatbot provides symptom based disease prediction, **first aid tips and clinic suggestions**, reducing the burden on healthcare providers.
- ❖ Multi-Model Validation and Human-in-the-loop System.

APPROACH USED :

- ❖ Extracts symptoms & detects user intent.
- ❖ Predicts diseases based on symptoms.
- ❖ Fetches clinic locations and provides responses.



Data And Model :

DATA SOURCE :

Disease Symptom Description Dataset (Kaggle), Medical Symptoms Dataset, ICD-10 Dataset , MIMIC-III

ABOUT MODEL :

- ❖ NLP to interpret user symptoms.
- ❖ Train the Model using TensorFlow
- ❖ API Keys for clinic location
- ❖ RASA uses its own built-in NLP pipeline for data encoding.

TOOLS USED:



TensorFlow(Train deep learning model.)



NLP & Conversational AI



spaCy

Text processing



Pandas & Numpy



Google maps API



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Impact and Benefits:

- ❖ Reduced Healthcare cost.
- ❖ Enhanced Public health.
- ❖ Efficient Healthcare system.
- ❖ User – Empowerment.
- ❖ Resource Optimization.
- ❖ Reduce misdiagnosis risks through AI .

Ethical Considerations & Real-world Applications:

- ❖ Data privacy and Security . Avoiding incorrect or misleading health recommendations.
- ❖ Healthcare,telemedicine,Emergency response ,public Health Monitoring.



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THANK YOU !

