DocuMed

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Streamlining Patient Data Management with Streamlit and Falcon LLM

Challenges Faced By Clinicians

- No standard solution to manage and query patient medical histories.
- Time and energy wasted in capturing and managing existing patient data.
- Difficulty in accessing and consolidating various patient records (e.g., progress reports, lab tests).

Solution

Chat Application

Built using Streamlit and Falcon LLM.

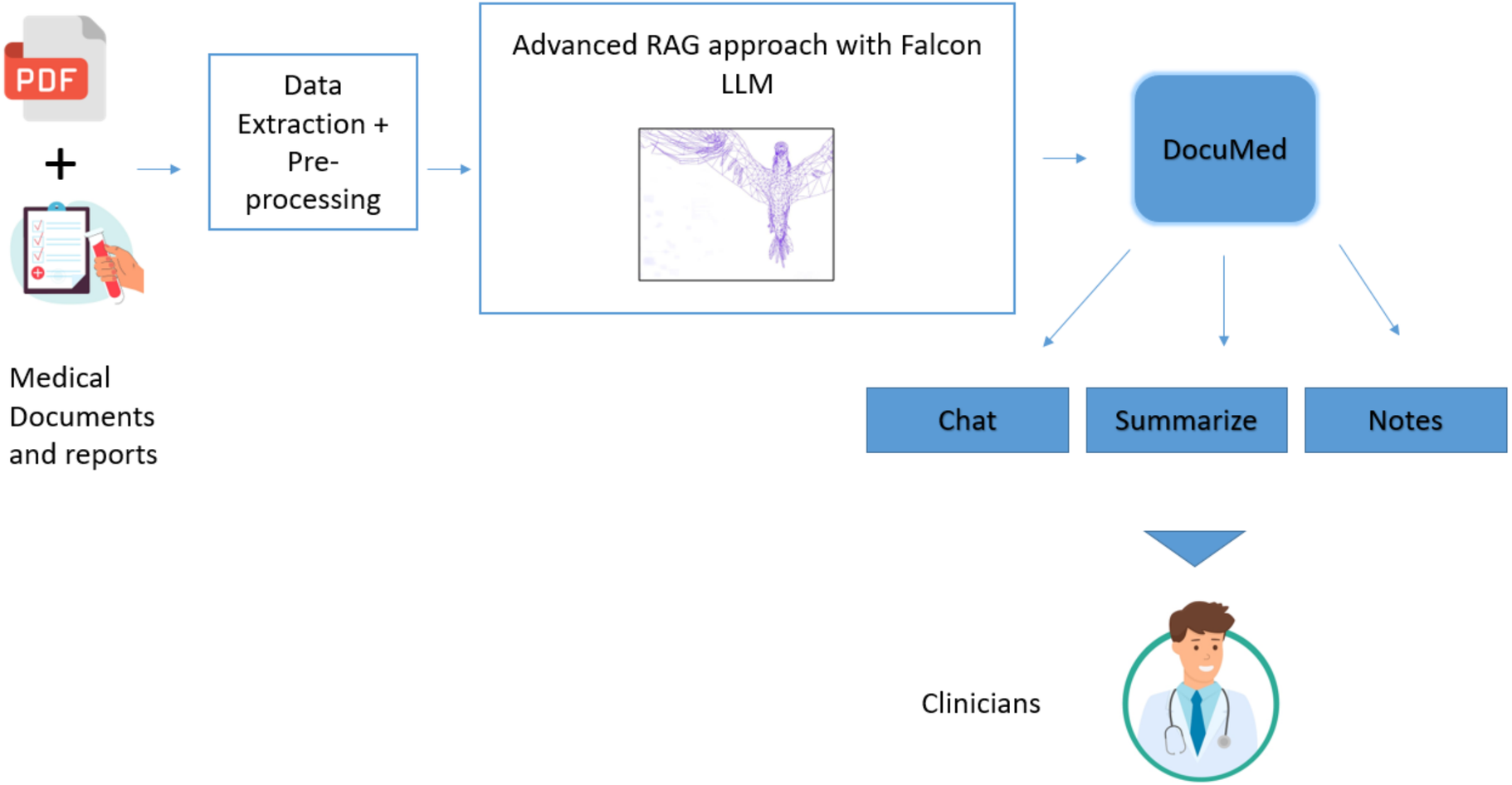
Knowledge Base

Ingests and summarizes each patient’s EHR, including progress reports, lab tests, x-rays, CT scans, and insurance details.

Holistic view

Provides a 360-degree view of patient health with sections for medical history, ongoing treatments, and metrics dashboards.

Architecture



Value and Impact

Reduced Time and Effort

Minimizes the manual capture and management of patient data.

Enhanced Efficiency

Streamlines data access and reduces paperwork.

Improved Patient Care

Enables personalized medicine and better decision-making through comprehensive data access.

Business Model and Future Scope

Decentralized Platform

Future integration with a government-managed platform for easy data transfer between hospitals.

Time Savings

Reduces clinician time spent on data entry and improves focus on patient care.

Scalability

Potential for wider adoption and integration into healthcare systems.

Future Enhancements

Decentralization

Onboarding Patient Knowledge modules to a decentralized platform.

Patient Alerts

Providing email or text notifications when a health checkup is due

Diagnosis Suggestions

Training the model on a medical dataset to also be able to suggest possible diagnosis to the clinician

Multi-Language Support

Add support for other languages

Thank You!