



RECURZIVE.

DiaCare AI

TEAM MEMBERS



LAKSHMI SHREE A



B.E Computer Engineering
Dayananda Sagar College Of Engineering



MOHAMED ABUBAKKAR S

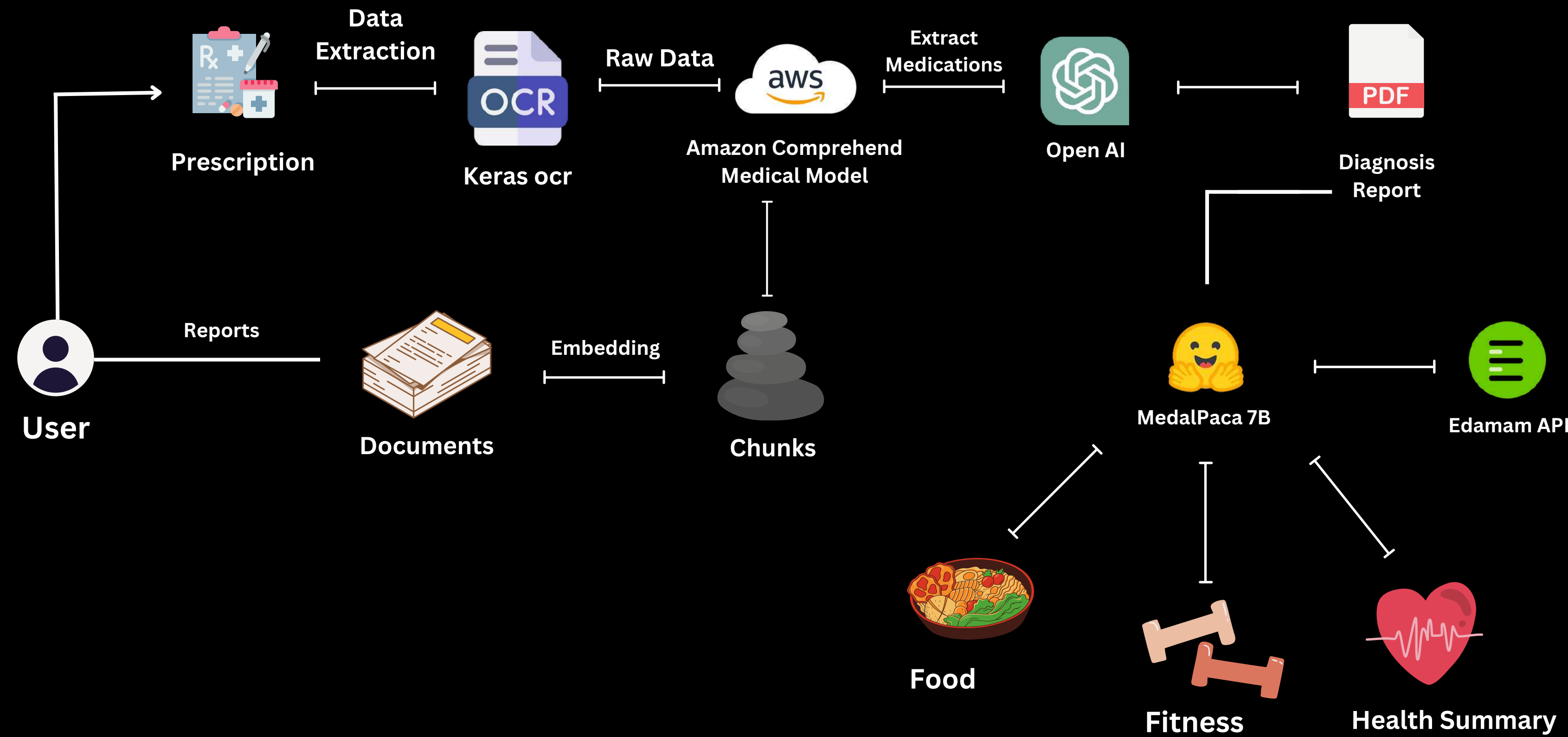
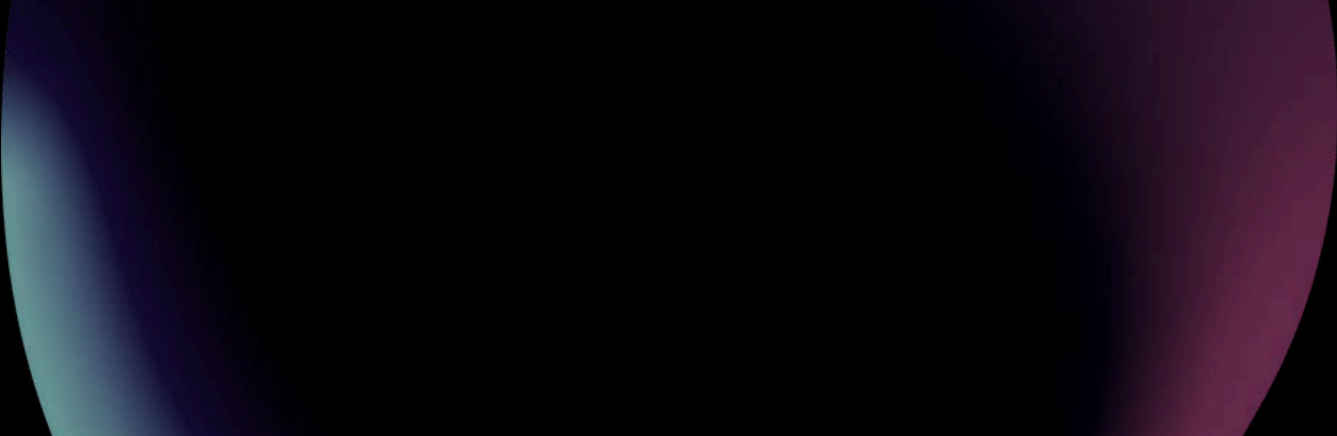


BS Data Science
Indian Institute Of Technology Madras

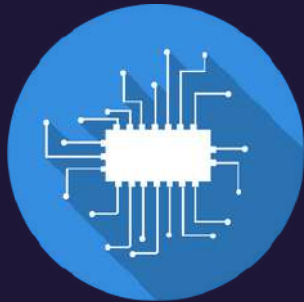
IDEA IN BRIEF

The proposed AI-driven solution, "DiaCare AI", tries to tap the root cause of Diabetes, early diagnosis and proper management of the same. It leverages clinical text extraction to analyze patient history and identify diabetes-related symptoms. Additionally, it uses advanced NLP and CV techniques to analyze medical lab reports and accurately diagnose diabetes. It also facilitates patient-doctor-like communication via the OPEN-AI API. Llama model uses the diagnosis report to recommend personalized treatment plans, including diet plans and lifestyle changes such as exercise and yoga. It also provides detailed explanation about patient's health condition. The system generates comprehensive reports summarizing patient history, symptoms, treatments, and recommendations, streamlining diabetes management for both patients and healthcare providers.

ARCHITECTURE



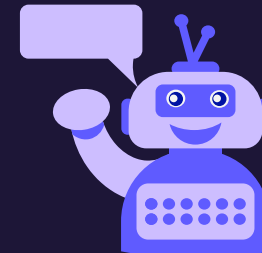
TECH STACK



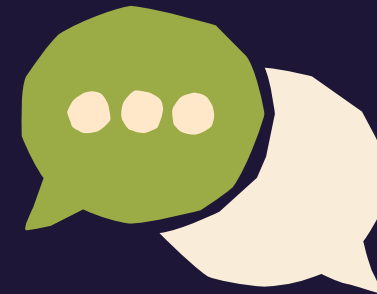
Deep Learning



**Optical
Character
Recognizer**



**Large
Language
Model**



NLP



Hugging Face



Edamam API



Open AI



AWS

NOVELTY

The DiaCare AI project introduces a novel approach to diabetes management in India by leveraging cutting-edge AI technology to analyze unstructured clinical data for early diagnosis and personalized treatment plans. Our important features include:

- **AI-Driven Diagnosis:** Cutting-edge AI technology analyzes unstructured clinical data for accurate and early detection of diabetes.
- **Personalized Management:** Tailored nutrition and fitness plans cater to individual health needs, enhancing patient engagement and adherence.



KEY FEATURES

- **Diabetes-related Clinical Text Extraction:** Extract information, Unstructured data, Medical history
- **Lab Report Analysis:** Diagnose diabetes, Lab data, Assess the condition
- **Nutrition Plan Dietary guide:** Tailored nutrition, Health needs
- **Exercise Plan:** Physical activities, Exercise guide, Fitness goals
- **Health Counseling:** Personalized guidance, Condition explanation, Motivate management
- **ChatPatient:** queries, Responsive service, Diabetes information
- **Report Generator:** Downloadable report, Diagnosis details, Management summary

SOCIAL IMPACT

Detects diabetes at an early stage, allowing for timely interventions to prevent complications. Providing personalized management plans helps improving patient adherence and outcomes. The OCR Powered Medicine Bot and MediTalk offer innovative solutions that can drive business growth in the healthcare IT industry while delivering social impacts. These solutions address challenges like illegible prescriptions, enable remote monitoring and consultations, integrate with existing systems, and promote medication adherence and overall well-being. Additionally, their 24/7 accessibility and focus on data privacy and security can improve healthcare accessibility and build trust in healthcare technology, leading to better patient outcomes and reduced costs.

FUTURE SCOPE

- Multi-language support
- Refill reminders
- Prescription tracking
- Telemedicine integration (Integrating with telemedicine platforms to facilitate virtual consultations with healthcare professionals based on the personalized advice provided by MediTalk)

TEAM CONACT DETAILS



LAKSHMI SHREE A
lakshmishreea122003@gmail.com
8660991886



MOHAMED ABUBAKKAR S
mdabucse@gmail.com
9578737494