

# HEALTHCARE



**FALCON POWERED HEALTHCARE SUITE**

# INTRODUCTION

- In the ever-changing world of healthcare, efficiency and precision are critical.
- Our project uses advanced language models to improve patient management and care.
- LLMs can enhance patient interactions by handling routine inquiries and guiding patients through their care and reducing administrative burdens. Additionally, LLMs offer recommendations and data-driven insights, leading to more targeted and effective healthcare.

hospital

Doctor

Patient

*MEDVANCE* 



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# PROJECT

## KEY FOCUS AREA

- Our falcon powered system intelligently examines medical queries and determines whether an appointment or consultation is required then generates a immediate link if high/medium risk otherwise schedules it for later if its low risk
- Our falcon powered system determines proper specialist—whether a Neurologist, Pediatrician, or other expert is required
- Provides succinct summaries of complex medical report
- Screens patient medications to flag dangerous drugs and provides analysis as well

## Problem that product can solve

- **Reducing unnecessary medical visits:** By intelligently triaging queries and determining risk levels, the system can help patients avoid unnecessary in-person appointments for low-risk issues, saving time and resources for both patients and healthcare providers
- **Improving specialist referrals:** By accurately determining the appropriate specialist for a given medical concern, the system can streamline the referral process, potentially reducing wait times and ensuring patients see the most suitable expert for their condition.
- **Enhancing patient understanding:** Through succinct summaries of complex medical reports, the system can help patients better comprehend their health status and treatment plans, potentially improving treatment adherence and patient engagement.
- **Preventing medication errors:** By screening patient medications and flagging potentially dangerous drugs or interactions, the system could help reduce adverse drug events and improve patient safety, especially for those on multiple medications or with complex medical histories.

# PROSPECTS(BUSINESS)

Growing demand for telemedicine and digital health solutions • Increasing need for efficient healthcare resource allocation • Rising focus on patient safety and medication management • Potential for integration with existing electronic health record systems

**Healthcare provider applications:** • Primary care clinics for initial patient triage • Hospitals for streamlining specialist referrals • Pharmacies for medication safety checks • Emergency departments for risk assessment and prioritization

**Consumer-facing applications:** Initial screening and specialist matching

# PATIENT MODULE

This module is aimed for patients and includes the following actions:

It contains four modules:

**Patient Assessment**: Based on the answers to specific questions, AI chooses whether to arrange an appointment or consultation, and even the priority of either.

**Report Summarizing**: The uploaded report (picture) is examined by AI and summarized in easy-to-understand phrasing and preliminary diagnosis, and the AI makes recommendations.

**Appointments**: This module obtains the current (active) appointments of a patient.

Note: In the case of High/Medium priority appointments, a meeting link is generated, and both the patient and the doctor can view it.

**Drug Screening**: This module pulls in patient medical history, prescriptions, and dangerous drugs data to flag if a patient has or is using those substances and provides an analysis of the results.

- In case of high/Medium risk Patient
- The ai will generate an immediate tele appointment link that will be accessible to both patient and doctor respectively



- In case of LOW risk patient if appointment /Consultation is not required if outputs not required
- If either of them are required it then schedules it (BY SAVING IT IN DB ONLY NO LINK GENERATED)

# DOCTOR MODULE

This module is aimed for doctors and includes the following actions:

It has two modules with the following functions:

**Patient Care**: This doctor's high, medium, and low risk appointments are listed here. The offered information regarding Appointments:

Appointment Link, Priority. Patient in terms of High/Medium Risk appointments and appointment prioritization, Patient in terms of Low Risk

**Decision Support**: The offered information in terms of decision assistance is the active appointment summary, key points, potential risks, and evidence (for the diagnosis). It is only available for high and medium risk appointments.