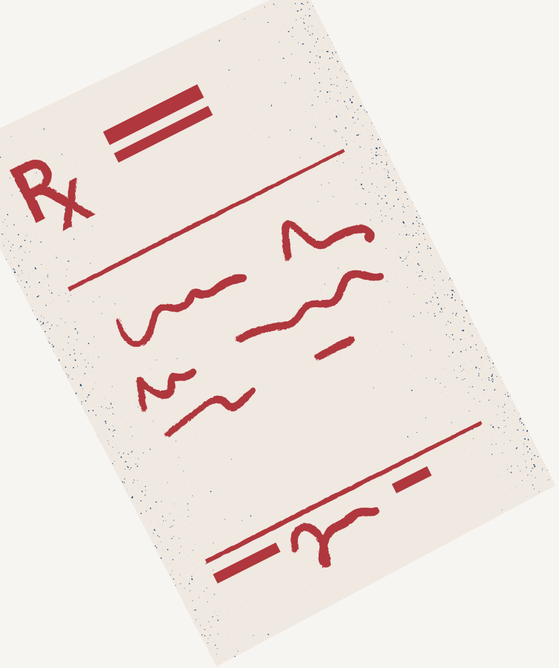
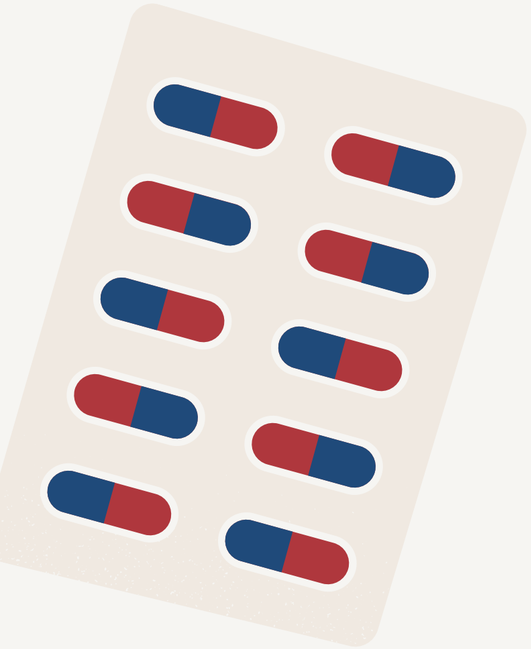




# Introducing Medynex

All in One AI-based Patient Management System

# Content Outline

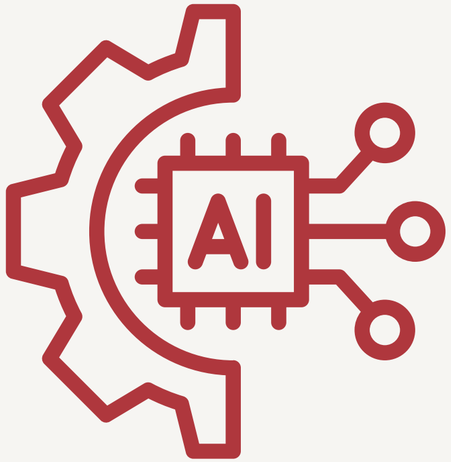
Topics for discussion



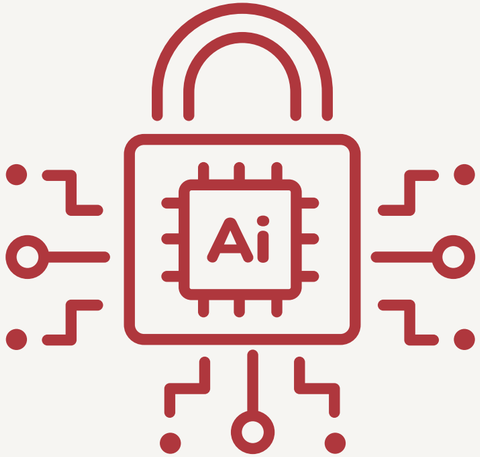
# Visions

**Improve the Patient Care**

**Remove the Administrative Load**




**AI Automation**




**Secure Medical AI**

# Motivations

## Personal Losses

- Witnessed significant issues in healthcare accessibility and diagnosis.
- Lost my maternal uncle to brain cancer—delayed diagnosis turned ear pain into a fatal disease.
- My grandfather passed from a brain stroke, struggling to find the right care in time.

## Lack of Real-Time Medical Support

The inability to quickly locate specialists, beds, and emergency care resources was a major obstacle, highlighting the need for better healthcare navigation.

## Expertise in AI and Technologies

With a strong background in AI & ML from college, research and professional experience in multiple AI companies, we are motivated to solve these critical healthcare gaps through technology, ensuring no family endures the same pain.

## Entrepreneurial Thirst

Passionate about creating impactful solutions that bridge gaps with cutting-edge technology by benefiting society, improving lives, and generating profit for all.

# The Problems We are Facing

## Delayed Detection

Patients often experience delays in diagnosing life-threatening conditions due to long hospital wait times, missed appointments, or the complexity of symptoms, leading to late treatment.

## Confusion Over Medical Reports

Many patients find it difficult to interpret complex medical reports and lab results, leading to confusion and anxiety about their health conditions.

## Taking Timely Dosage

Patients often forget to take prescribed medication timely as per the dosage, leading to ineffective care and worsening of their conditions.

**Long Wait, Unseen Pain: Who Knows a Cancer Patient is in Line?**

Src: SSKM Hospital (West Bengal, India)

**Missed Dose, Missed Chance: Don’t Let Your Health Slip**

## Difficulty in Accessing Healthcare Providers

Patients frequently face long wait times and limited access to healthcare professionals, particularly in remote or underserved areas, causing critical delays in treatment.

## Insufficient Demographic Data

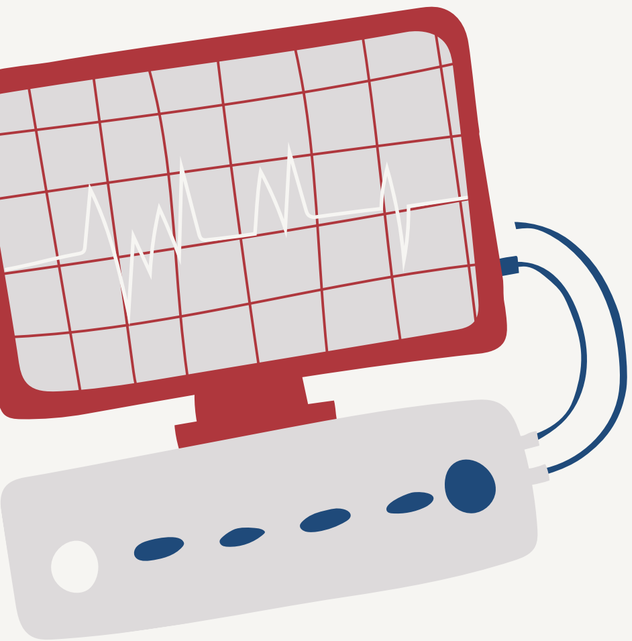
Current healthcare apps lack the ability to capture critical data, requiring manual surveys for diseases like Dengue, Plague, Fever with Flu, COVID, and other harmful illnesses. This leads to delayed detection and response to outbreaks, impacting public health.

## Lack of Emergency Information

Patients and families face challenges in locating urgent medical resources. There's no easy way to access real-time information on the availability of hospital beds (e.g., for pregnant women, cancer patients), doctors, critical machines (e.g. Defibrillators, Ventilators) and antidotes.

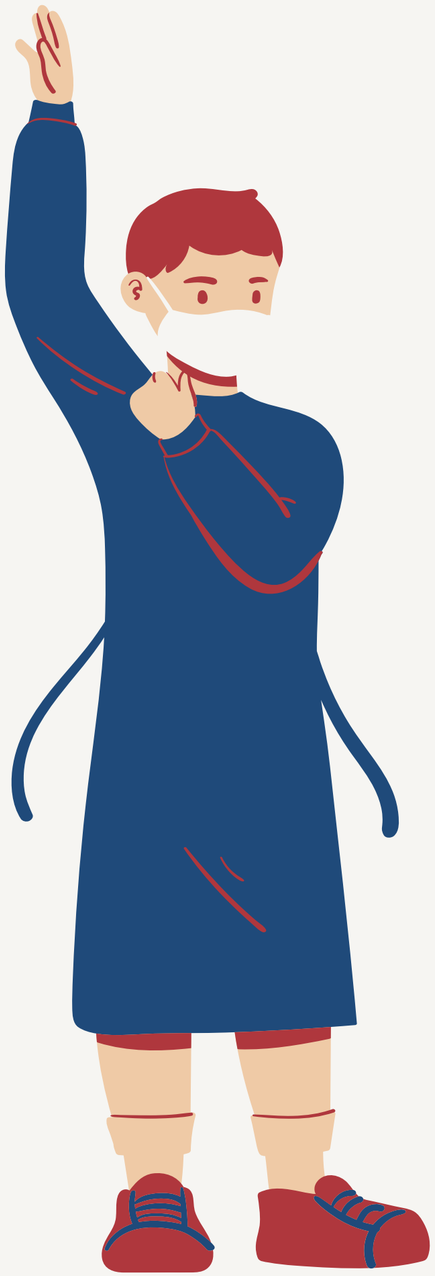
## No Unified Solution

Patients and providers often struggle with fragmented solutions that lack essential features within a single application. Existing apps typically provide limited functionality, forcing users to switch between multiple platforms to manage different aspects of care.



# Pre-Generative AI Era

Before the evolution of GenAI, Traditional deep learning & machine learning models are used in healthcare sectors. But there are overfitting and underfitting issues of such ML and DL models, which previously hindered performance of overall systems. These older models often required extensive fine-tuning and were prone to inefficiencies, such as high inference times and the latency. Generative AI, by contrast, offers faster and more accurate predictions, significantly reducing time, cost and improving the quality of insights, thereby transforming healthcare delivery.



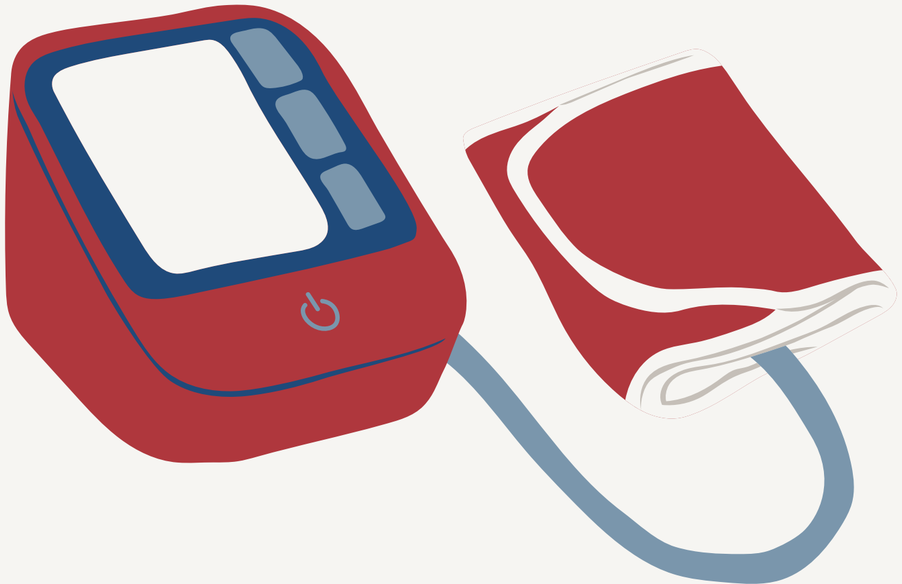
# Healthcare in the 21st Century

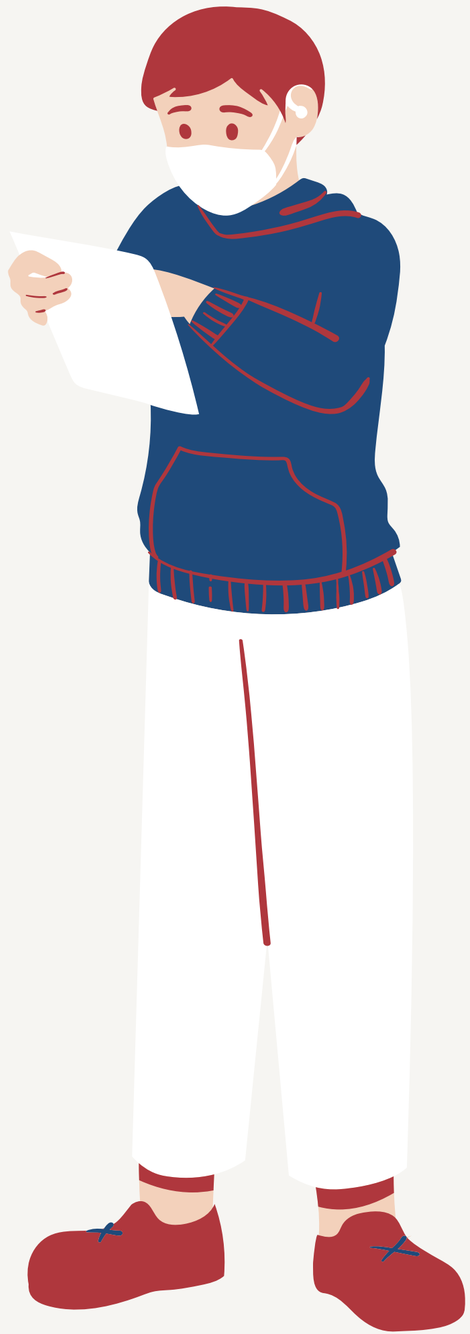
Post Generative AI Era

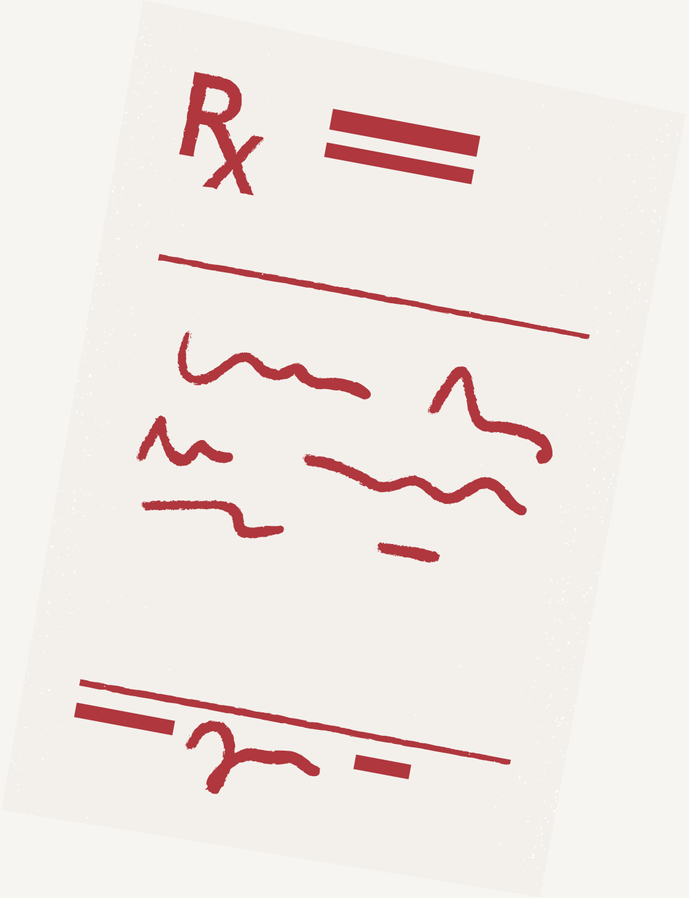
In the era of generative AI, the healthcare sector has undergone transformative changes across a wide range of activities, from administrative tasks to patient care. Generative AI has enhanced operational efficiency, particularly in clinical documentation, medical report analysis, and symptom-checking, making patient care more streamlined and effective. Technologies such as Retrieval-Augmented Generation (RAG) and AI-powered vision tools have played a vital role in this transformation.

# WHAT MEDYNEX BRINGS?

Medynex presents an all-in-one patient management system with complete AI automation. Our priority is to secure the patient data and make a completely reliable healthcare solutions. In Medynex, we built predictive analysis,  an early symptoms checker with risks calculation, AI powered tele-medicine solution, dosage reminder and others AI healthcare solutions which you can find on the other slides in an unified platform.

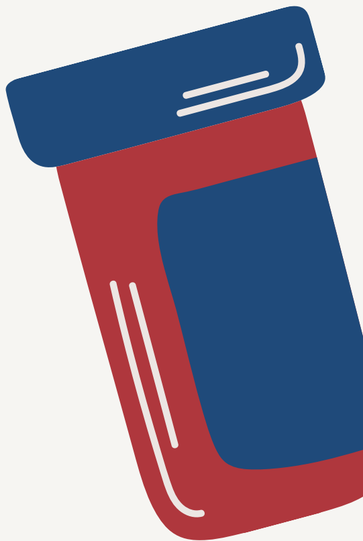






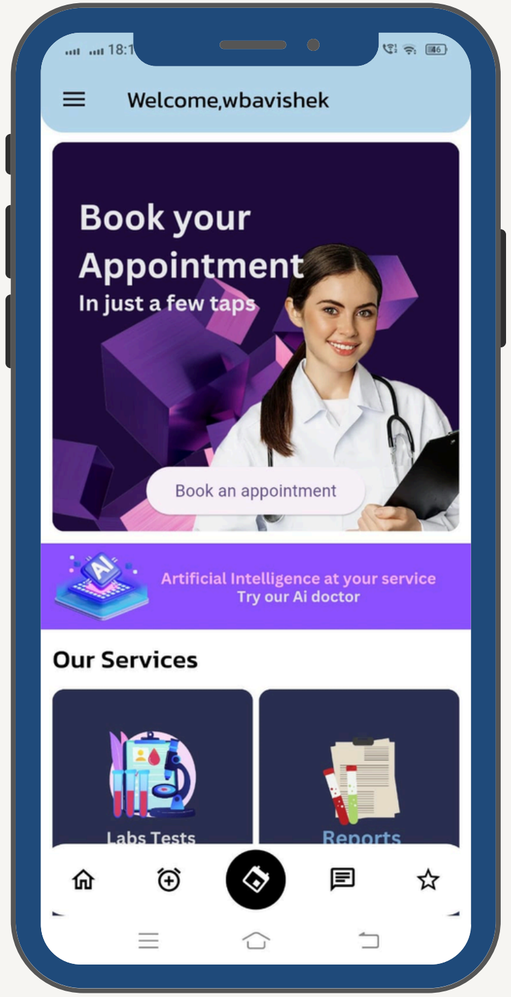
# Our Solutions for Patients

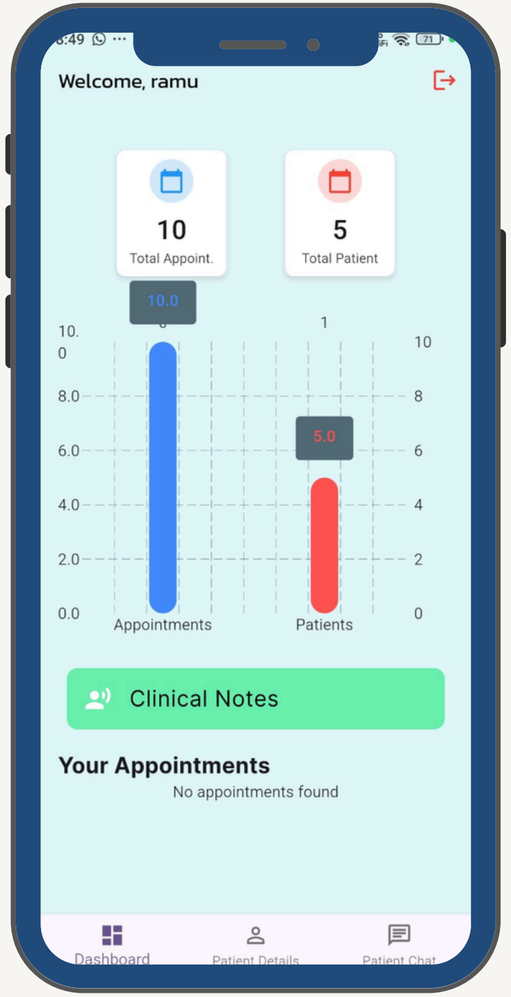
1. Early Detection
2. Medication Reminder
3. Virtual Healthcare Assistant
4. Report Analysis
5. Nutrition Analysis
6. Easy Appointment Booking
7. Telemedicine Solutions
8. Doctor & Patient Conversation
9. Emergency Support
10. Book Report
11. Protein Calculator
12. Billing Solutions

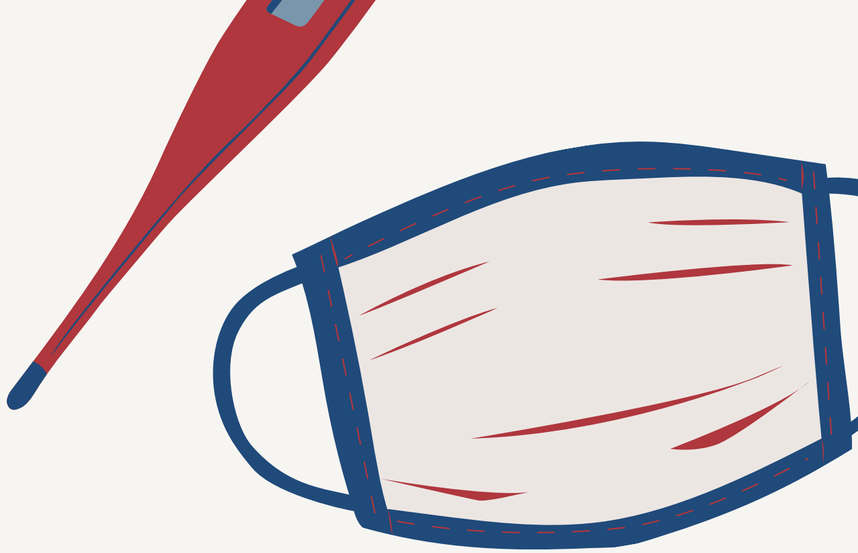


# Multiple Dashboards

**We designed our applications with multiple dashboards for doctors, patients, staff, and hospitals for efficient workflow management.**



# Healthcare Delivery

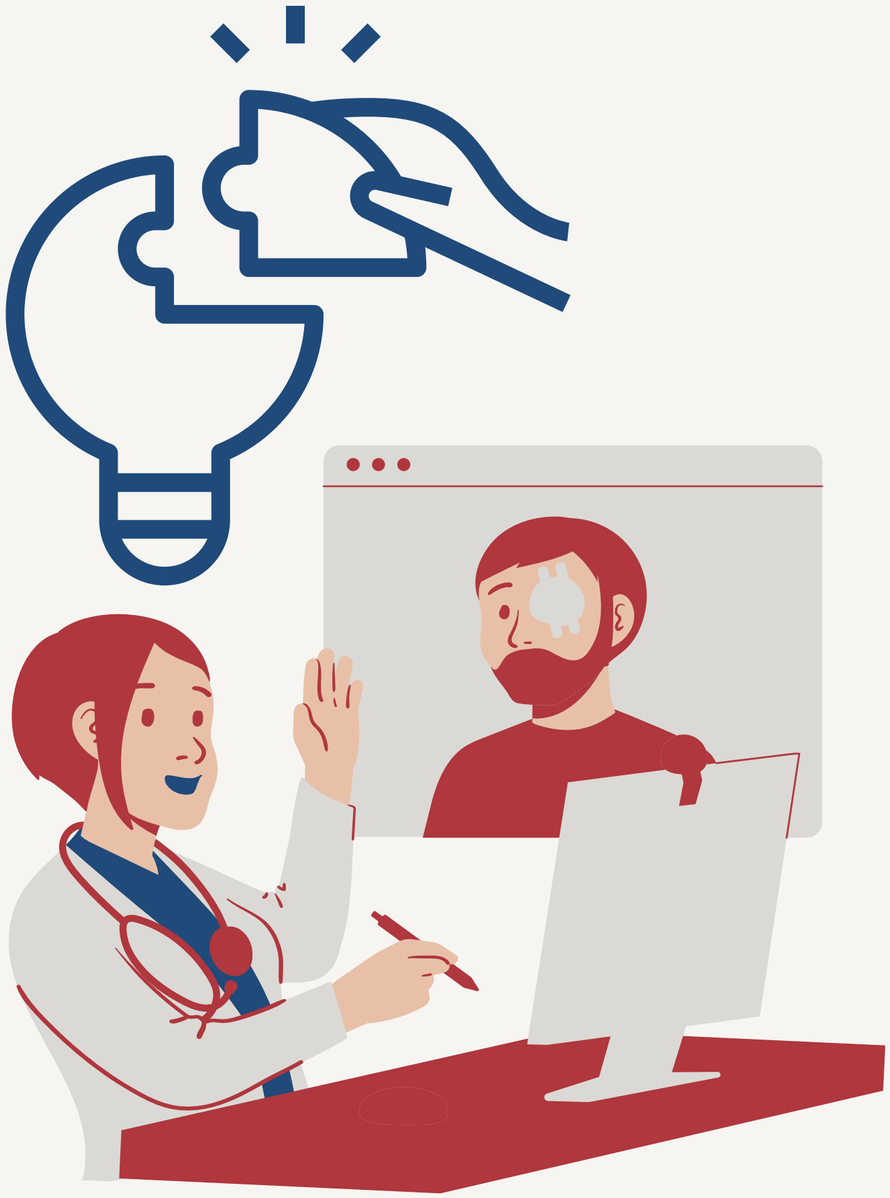
### Nexus of Healthcare

Medynex is revolutionizing healthcare delivery by streamlining processes and making care more accessible and efficient. With its AI-driven telemedicine solutions, patients can book appointments, access virtual consultations, and receive early emergency support without the need for in-person visits, reducing the pressure on hospital systems.

# Patient Empowerment

### Ease the Patient Management

Patient empowerment using Medynex can significantly enhance satisfaction and improve early-stage disease management. By providing AI-driven early detection systems, patients are alerted to potential health risks before symptoms become critical, enabling timely intervention. Medynex's virtual healthcare assistant empowers patients to monitor their symptoms and seek medical advice without delay, even in the comfort of their own homes.



# Our Business Solutions

## Customizable API’s

Medynex offers APIs that can be easily integrated into existing healthcare software systems. These APIs enable seamless interaction with Medynex’s AI-powered tools.

## AI Automation

Through automation, Medynex reduces the burden on healthcare professionals by handling administrative tasks like appointment bookings, medical scribing (for generating SOAP notes), and report analysis.

## Enhanced User Experience

Medynex provides customizable solutions for healthcare enterprises, enhancing the patient and provider experience through multiple dashboards for different stakeholders (patients, doctors, and clinic staff).

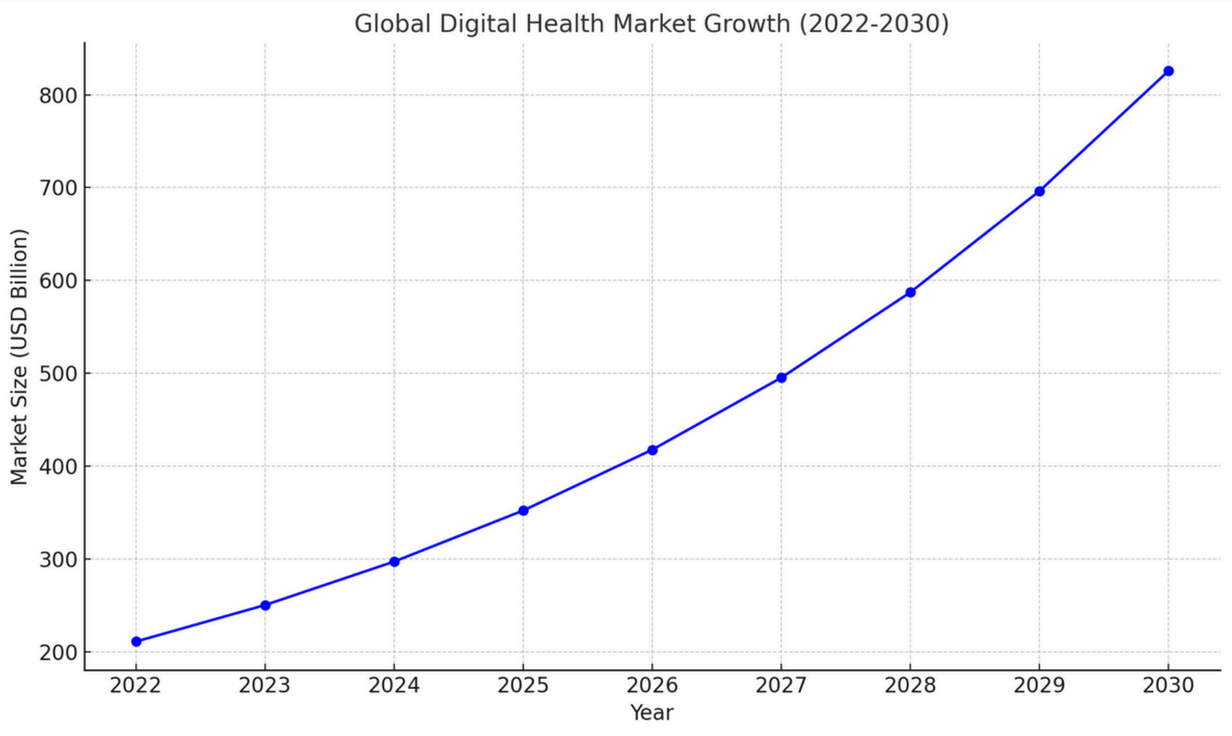
## Own LLM Support

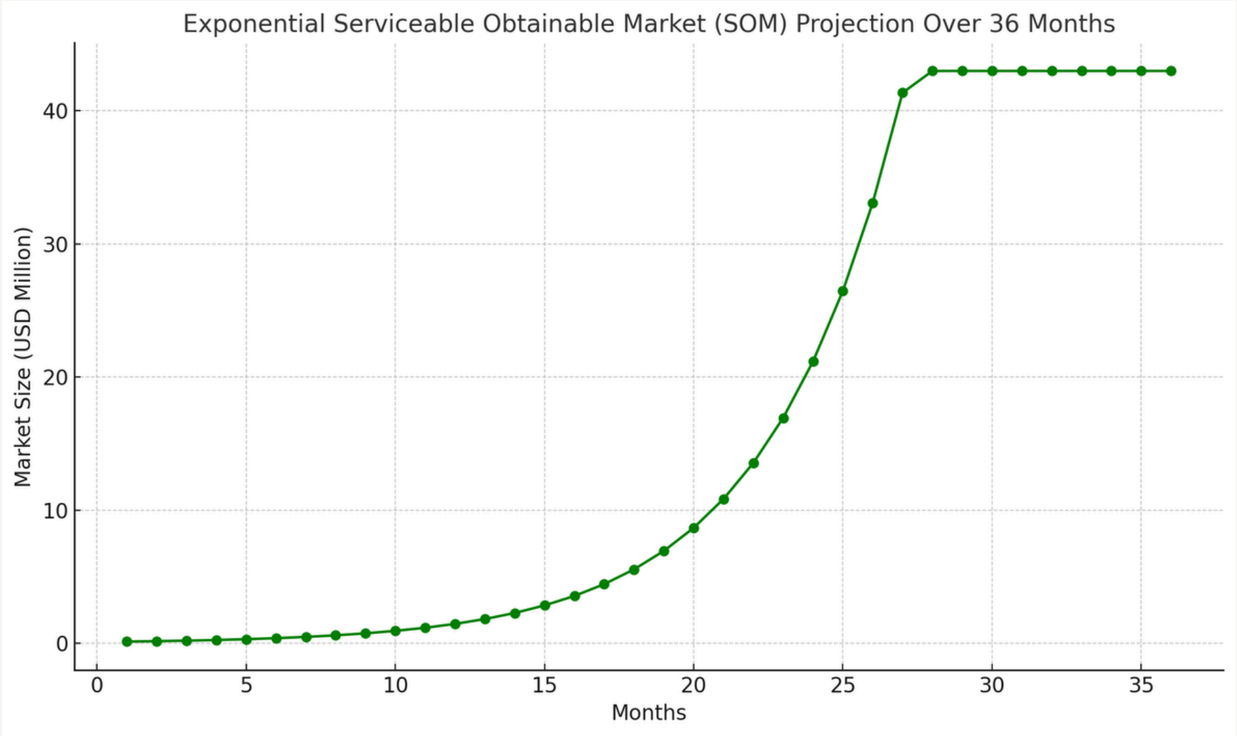
Medynex has been finetuned its own LLM which can be used to make different medical AI solutions. We are providing support for it.

# Market Opportunity

## TAM (Total Addressable Market) & SOM (Serviceable Obtainable Market)

According to Grand View Research, the global digital health market size was valued at USD 211.0 billion in 2022 and is expected to expand at a compound annual growth rate (CAGR) of 18.6% from 2023 to 2030.
The integration of AI in healthcare is projected to reach USD 45.2 billion by 2026, growing at a CAGR of 44.9% from 2021, as reported by MarketsandMarkets.



# Investment Proposal

Investment Required

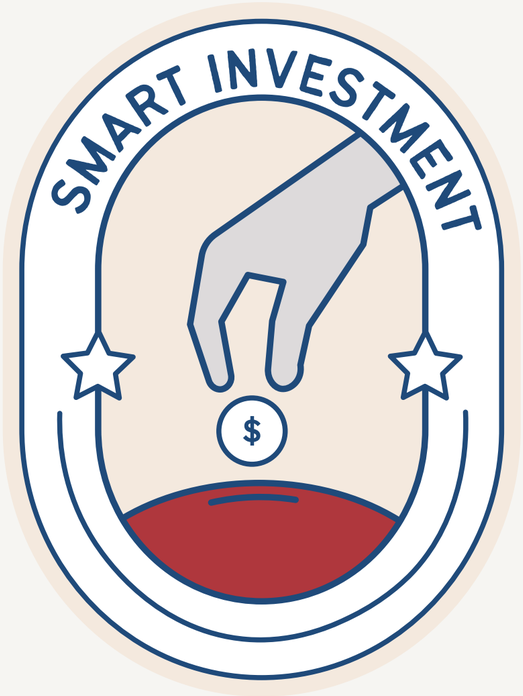
**$ 470K**

**Estimated Revenue (36 Months)**

**$ 42 Million**

**Gross Margin**

**74%**



# Technical Roadmap

An ongoing journey

### Phase 1 - Functional Prototype

In this phase, we will develop a fully functional Android application. It will include core features like appointment booking, patient-doctor communication, report analysis, and telemedicine services, providing a seamless user experience for both patients and healthcare providers.

### Phase 2 - Advanced AI Integration

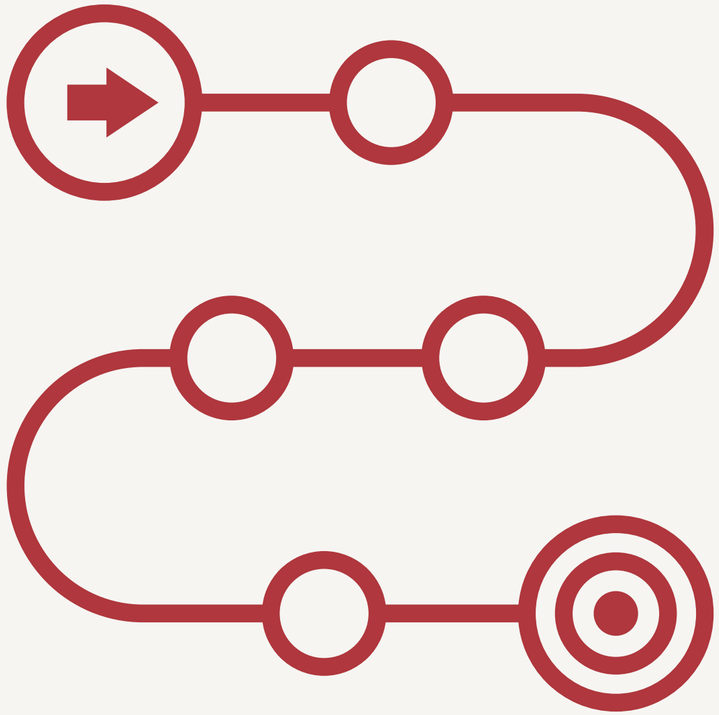
In the second phase, we will integrate a symptoms checker and risk factor calculator. These AI-driven tools will allow users to input their symptoms and receive early-stage diagnosis suggestions and risk assessments for various conditions, further enhancing patient care.

### Phase 3 - Launching on Web & ioS

In the final phase, we will expand the app's availability by launching it on iOS and web platforms, ensuring accessibility across multiple devices and a wider audience.

### Phase 4 - IoT Integration

This phase will introduce integration with wearable health devices. The app will collect real-time health data, such as heart rate and physical activity, to provide patients and doctors with more personalized insights.



# Meet the Team

Medical innovators

**Avishek Bhattacharjee**

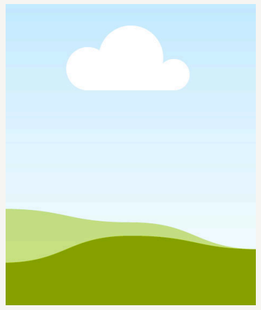
Co-Founder & Medical AI Expert

**Satya Prakash Nayak**

Chief Technology Officer (CTO)

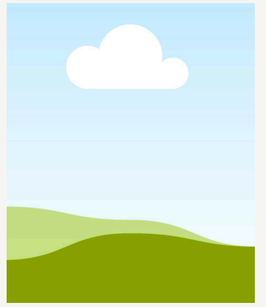
**Haraprasad Hota**

Chief Managing Officer (CMO), AI Expert



**Name**

Advisor & Board Member



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Heathcare Expert & Board Member

# Questions or comments?

Get in touch!

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