



MediFlow: AI-Powered Patient Onboarding and Diagnosis



Problem Statement

1

Long Wait Times

Patients often face lengthy wait times for appointments, leading to frustration and delays in receiving necessary care.

2

Inefficient Onboarding

Traditional patient onboarding processes are often cumbersome and time-consuming, requiring patients to fill out lengthy forms and provide redundant information.

3

Limited Pre-Appointment Information

Doctors often lack sufficient information about patients before appointments, making it difficult to provide personalized and effective care.

4

Prioritizing Urgent Cases

Identifying and prioritizing urgent cases can be challenging, leading to delays in critical care for patients in need.

Our Solution: Overview

AI-Driven IVR

An AI-powered IVR system handles initial patient contact, gathering essential information and guiding patients through the process.

Intelligent Onboarding

A streamlined and personalized onboarding process collects necessary information efficiently, reducing paperwork and improving patient experience.

Automated Diagnosis

AI algorithms analyze patient symptoms and medical history to generate an initial diagnosis and report, providing valuable insights for doctors.

Seamless Integration

The system seamlessly integrates with existing healthcare systems, ensuring data consistency and facilitating efficient workflow.



Key Features

Smart IVR

The intelligent IVR system guides patients through initial contact, gathering essential information and directing them to the appropriate department.

Personalized Onboarding

The onboarding process adapts to individual patients, collecting relevant information based on their needs and medical history.

AI-Guided Assessment

AI-powered IVR guide patients through a series of questions, assessing their symptoms and providing insights for diagnosis.

Patient Journey

1

Step 1: Initial Contact

Patients call and interact with the AI-powered IVR system, providing basic information.

2

Step 2: Onboarding

The system guides patients through a personalized onboarding process, collecting relevant information and medical history.

3

Step 3: Department Selection

Patients select the appropriate department based on their symptoms and needs, ensuring efficient routing to the right specialists.

4

Step 4: Diagnosis

The AI-powered system guides patients through a series of questions, assessing their symptoms and generating an initial diagnosis.

5

Step 5: Report Generation

The AI generates a comprehensive report summarizing the patient's symptoms, medical history, and initial diagnosis, providing valuable insights for the doctor.

Benefits for Patients

1

24/7 Access

Patients have access to initial healthcare guidance anytime, anywhere, through the AI-powered IVR system.

2

Reduced Wait Times

The streamlined onboarding and diagnosis process reduces wait times for appointments, allowing patients to receive care more quickly.

3

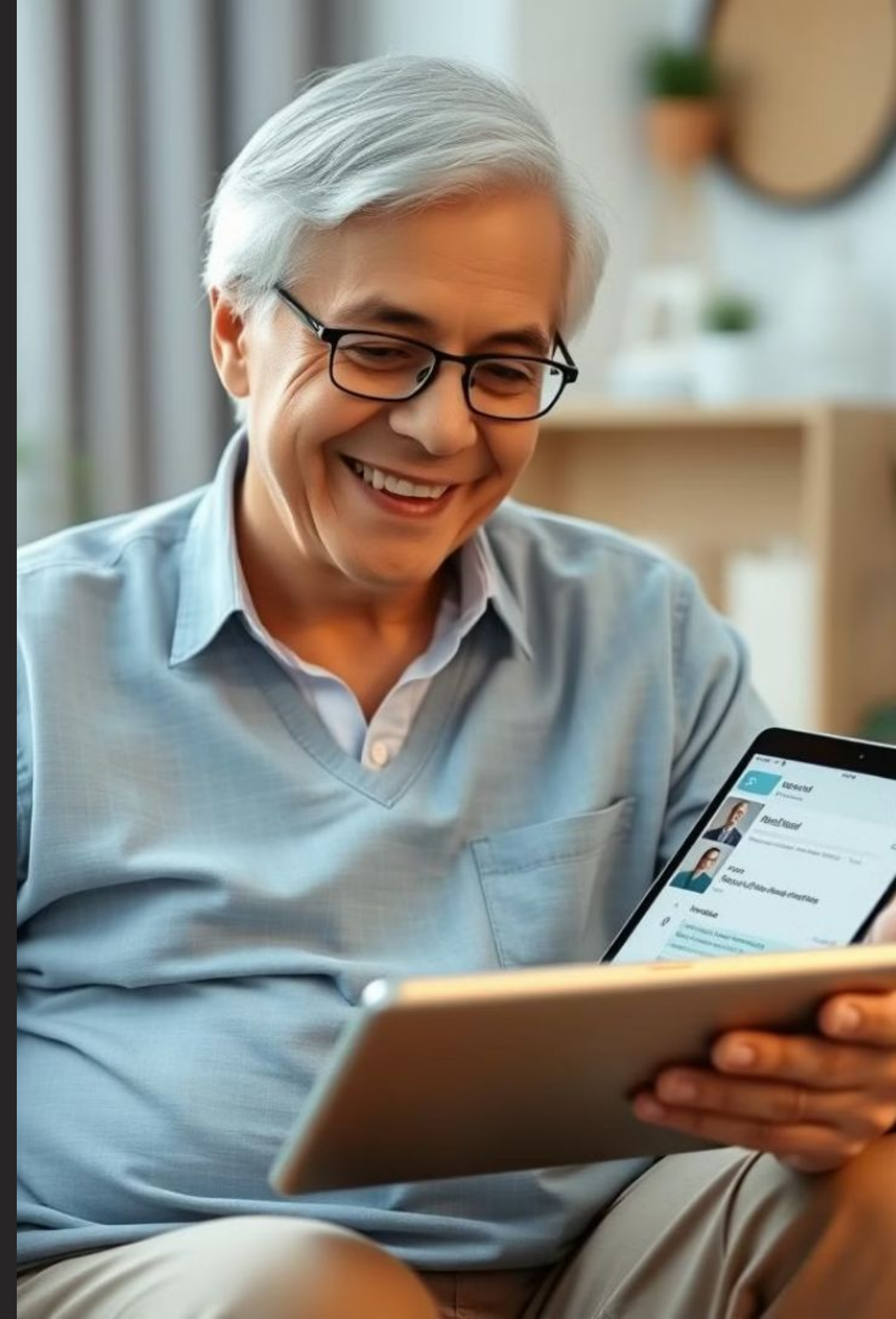
Personalized Experience

The system provides a personalized experience, tailoring the onboarding and diagnosis process to individual patient needs.

4

Efficient Assessment

The AI-guided symptom assessment ensures a thorough and efficient pre-appointment evaluation, providing valuable insights for doctors.



Benefits for Healthcare Providers

Comprehensive Information	Prioritization of Urgent Cases	Improved Resource Allocation	Enhanced Patient Satisfaction
Doctors receive comprehensive patient information before appointments, including symptoms, medical history, and initial diagnosis, allowing for more informed care.	The AI system helps identify and prioritize urgent cases, ensuring that patients in need receive timely and appropriate care.	The system provides valuable insights into patient needs, enabling healthcare providers to allocate resources more effectively and efficiently.	The streamlined process and personalized experience contribute to increased patient satisfaction, leading to improved overall healthcare outcomes.

Technology Stack

Component	Description
Twilio	Advanced IVR system for handling patient calls and interactions.
O1 & GPT-4o	LLMs for generating comprehensive diagnostic reports based on patient data.
Django	Backend framework for handling AI and IVR integrations
Next JS	Frontend framework for building a user-friendly and interactive interface for patients and healthcare providers.
Vercel & DigitalOcean	Hosting platforms for deploying and scaling the application.

django

