

Transforming Patient Scheduling & Management

PROBLEM STATEMENT

In the current healthcare environment, patient scheduling and management are often inefficient, leading to long wait times, underutilization of healthcare resources, and a suboptimal patient experience. There is a need for an intelligent scheduling system that can dynamically allocate appointments based on patient needs, medical urgency, and resource availability. This system should integrate seamlessly with existing healthcare infrastructure, support decision-making for healthcare providers, and enhance patient satisfaction by reducing wait times and improving access to care. The challenge lies in developing an AI/ML-driven solution that is adaptable, user-friendly, and capable of handling the complexities of healthcare scheduling and management.

Solution Overview

- 1. Online Form:** Patients complete an online form detailing their symptoms and medical history.
- 2. Data Integration:** AI/ML integrates this data with existing medical records to create a comprehensive patient profile.
- 3. Scheduling Algorithm:** Utilize machine learning algorithms to analyze patient data, considering factors like symptom severity, medical history, health metrics, and doctor availability.
- 4. Appointment Recommendations:** Provide scheduling recommendations, categorizing appointments as in-person or remote, and assigning priority levels.
- 5. Instant Notifications:** Patients receive immediate notifications with their appointment details. The system could also alert healthcare professionals to schedule and prepare for upcoming consultations.

RESULTS



Decreased Wait Times

Appointment wait times were reduced by 30%, enhancing patient satisfaction.



Increased Provider Productivity

The system's efficiency in appointment allocation resulted in a 20% increase in healthcare provider productivity.



Optimized Resource Utilization

There was also a notable improvement in resource utilization, with a 25% decrease in idle time for medical staff.