Audax Labs - e-Physician Assistant

Our Capabilities & Experience

Audax labs is an Innovation Partner with a strong System Integrator background. We work with enterprise clients in their innovation journey from ideation to enterprise grade deployment.

PARTNERS

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AUDAX LABS

INDUSTRIES

- Automotive
- Manufacturing
- Healthcare
- BFSI
- Retail

TECHNOLOGIES

AI
Artificial Intelligence

AR, VR, & XR
Augmented Reality

IoT
Internet of Things

Cloud
Storage & Computing

Data
Managing Data lifecycle

GLOBAL PRESENCE

Challenges in Traditional Patient Assessments

Some of the key challenges in traditional patient assessments include:

Subjectivity

Traditional assessments often rely on subjective information from patients and healthcare providers. This subjectivity can lead to inconsistencies and inaccuracies in diagnoses and treatment plans.

Incomplete Information

Incomplete Information: Patients might not always provide complete or accurate information about their medical history, symptoms, or lifestyle factors. This lack of information can hinder accurate assessments.

Low Physician to Patient Ratio

The global physician-to-patient ratio varies significantly, resulting in delays in delivering high-quality healthcare and posing challenges for caregivers as well.

Paper-Based Records

Many healthcare facilities still rely on paper-based records, which can be difficult to manage, access, and update. This reliance on physical records can lead to inefficiencies and errors in patient assessments.

Lack of Standardization

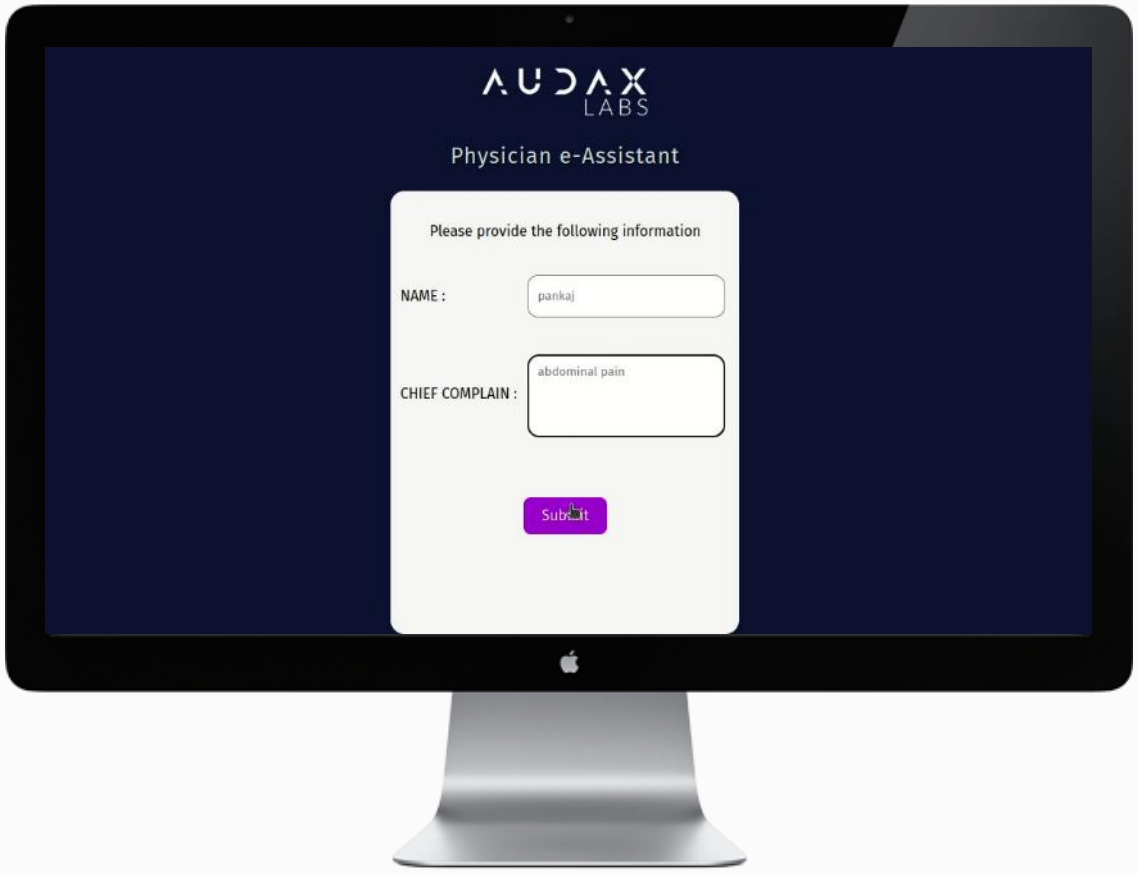
Assessment methods can vary between healthcare providers and facilities, leading to a lack of standardization. Standardized assessment tools and protocols are crucial for consistency in patient evaluations.

Data Security

With the digitization of health records, ensuring the security and privacy of patient data is a significant challenge. Breaches in data security can have serious consequences for patient trust and confidentiality

Introducing e-Physician Assistant App

e-Physician Assistant, developed by Audax Labs, is a innovative solution designed to streamline the patient assessment process for physician. Traditional consultations often require doctors to spend significant time gathering a patient's medical history and understanding their current medical issues through a series of questions. With e-Physician Assistant, we offer an innovative approach that leverages generative questioning to proactively evaluate a patient's condition before the doctor's consultation.



How does it work?

Our Physician-Medical-Assistant AI takes the patient's initial chief complaint and engages in a comprehensive series of inquiries. These generative questions are designed to delve deep into the patient's medical history and current concerns. Once the assessment is complete, application compiles a comprehensive summary of the interaction between the AI and the patient.

Benefits for Physicians and Patients

e-Physician Assistant can save time and increase productivity for doctors, allowing them to focus on providing better care while patients can benefit from more efficient assessments and improved doctor-patient interactions..

FOR PHYSICIANS

_01 Time Efficiency

_02 Enhanced Productivity

_03 Improved Diagnostics

_04 Personalized Treatment Plans

_05 Data-Driven Insights

_06 Reduced Burnout

_07 Enhanced Patient Communication

FOR PATIENTS

_01 Accessibility

_02 Comprehensive Summaries

_03 Efficient Data Gathering

_04 Streamlined Communication

_05 Faster Diagnoses

_06 Reduced Waiting Times

_07 Improved Outcomes

Physician e-Assistant - A GenAI POC

Solution Component:

Open AI + React + Python + SQL

Challenge:

A large rehabilitation hospital in US is facing challenges due to low ratio of doctors to patients. Healthcare providers and caregivers are burnout, and they are struggling to support larger number of patients .

Physicians spend considerable amount of time in gathering basic details of the patients and summarizing their problem.

Solution:

Audax Labs developed a Generative AI solution that would gather crucial information of the patients by asking them relevant questions and summarizing their medical condition.

The app provides a summarized report to providers and caregivers which they can use to diagnose the problem. The solution reduces time and cost of service for the patients.

Outcome (ROI):

- Reduces patient's wait time in the facilities
- Cost effective
- Increase in the number of patient appointments
- Increase in Revenue

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Outcome Driven Innovation!

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The Role of AI in Healthcare

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Artificial Intelligence (AI) has emerged as a transformative force in the healthcare industry, promising to revolutionize the way we approach medical diagnosis, treatment, and patient care. With its ability to analyze vast amounts of data, detect patterns, and make informed decisions, AI is reshaping healthcare practices in unprecedented ways. Here is how AI can help in healthcare, improving patient outcomes, streamlining processes, and enhancing the overall quality of care.

AI in Medical Imaging

AI algorithms can analyze X-rays, MRIs, CT scans, and other images with incredible accuracy. They can identify anomalies, tumors, fractures, and other medical conditions faster and more precisely than human radiologists.

Predictive Analytics for Prevention

By analyzing patient data and historical trends, AI can identify individuals at high risk for certain diseases. Healthcare providers can then intervene early with personalized interventions, such as recommendations or preventive treatments.

Enhancing Clinical Decision-Making

These systems can analyze a patient's medical history, current symptoms, and available research data to suggest the most suitable treatment options. This not only enhances the quality of care but also reduces the risk of medical errors.

Streamlining Administrative Tasks

Chatbots and virtual assistants can handle appointment scheduling, answer common patient inquiries, and manage administrative workloads. This allows healthcare staff to focus more on patient care and less on paperwork.

Drug Discovery and Development

ML algorithms can analyze vast datasets to identify potential drug candidates, predict their effectiveness, and optimize drug formulations. This can significantly shorten the time and cost involved in bringing new treatments.

Telemedicine and Remote Monitoring

AI-powered devices and applications can continuously collect and analyze patient data, providing real-time insights to healthcare providers. This enables more personalized care, and reduces hospital re-admissions.