

MediSumSMAI : Simplifying Patient Records for Smarter Care

Meet MediSumSMAI, an AI-powered patient record summarizer designed to revolutionize how doctors access and interpret patient histories. Built to provide initial insights during diagnosis, MediSumSMAI processes past patient records and medication histories, delivering concise summaries that include core patient details, diagnosis history, medication history, doctor and hospital details, critical insights and alerts about the patient's health, such as potential risks or allergies.

Target Audience

MediSum AI is designed for healthcare professionals seeking to optimize the management and interpretation of patient records. The primary audience include:

- **Doctors and Physicians:** Clinicians in hospitals, clinics, and private practices needing efficient access to patient histories for accurate diagnoses and treatment.
- **Medical Practitioners:** General practitioners and specialists requiring access to complete patient histories (diagnoses, medications, and treatments).

Challenges

Before MediSumSMAI, healthcare providers faced significant hurdles in managing and reviewing patient records, creating inefficiencies and risks in patient care. These hurdles slowed healthcare delivery, compromised diagnostic accuracy, and strained patient provider interactions, underscoring the need for an innovative solution.

- Time-Consuming Record Review
- Lengthy and Unstructured Data
- Risk of Human Error
- Inefficient due to the time consuming process.
- Mental Fatigue

Key Features:

MediSum AI integrates advanced technologies to streamline patient record management and enhance clinical decision-making. Its key features include:

- **Smart Summarization:** AI concisely summarizes lengthy patient records (diagnoses, meds, etc.) for faster review and decisions.

- **Actionable Insights:** Provides key findings and risk warnings (drug interactions, allergies) for informed medical decisions.
- **Real-Time Access:** Provides live previews of original patient records alongside AI-generated summaries, ensuring context and clarity for healthcare providers.
- **Secure Cloud Storage:** Patient records are securely stored in the cloud (Google Cloud Storage), with easy, authorized access and high levels of data protection.
- **VPN and Google OAuth Authentication:** Robust security features like VPN, access restrictions, and Google OAuth authentication protect sensitive patient data for authorized personnel only.
- **Multiple File Previews:** Previews various files and compares originals with AI summaries in one session.
- **Intuitive User Interface:** A user-friendly design allows healthcare professionals to select files, view summaries, and manage multiple records seamlessly, without needing technical expertise.
- **Error and Warning Alerts:** The system flags potential issues such as large file sizes, unsupported formats, or processing errors, ensuring smooth and efficient use.

Benefits

MediSumSMAI delivers a host of advantages that tackle the pre-existing challenges head-on:

- Significant Time Savings
- Improved Diagnostic Accuracy
- Organized Insight
- Increased Efficiency and Better Patient Experience
- Reduced Cognitive Load
- Secure & Accessible Storage