

# MedGuardAI

Real-time AI to prevent clinical errors in healthcare, enhancing patient safety and reducing risks in medical practices.



Made with GAMMA

# The Critical Problem: Medical Errors

Medical errors rank as the 3rd leading cause of death globally, impacting millions annually.

Overloaded doctors often struggle with misdiagnoses, dosage mistakes, and documentation issues, leading to critical patient safety risks.



# MedGuardAI: An AI-Powered Solution



## Analyzes Patient History

Real-time AI reviews comprehensive patient history, prescriptions, and diagnoses to identify potential risks.



## Flags Critical Issues

Flags drug interactions, dosage anomalies, misdiagnoses, and documentation mistakes, ensuring timely intervention.

# How MedGuardAI Works



## Data Entry

Patient enters medical data, receiving a secure token for data protection.



## Secure Access

Doctor pastes the token to securely access patient data and history.



## AI Analysis

LLaMA on Groq analyzes data and delivers explainable alerts, enhancing diagnostic accuracy.

# Technology & Security Architecture

## Tech Stack

- Groq API
- LLaMA
- Firebase
- Supabase
- React

## Security

Token-based sharing ensures patient privacy, consent, and comprehensive data protection against unauthorized access.



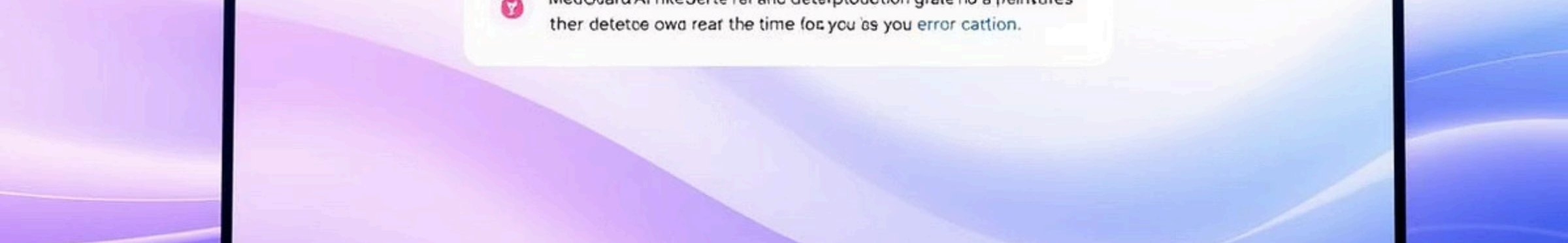
# Impact & Scalability

## 1 Enhanced Patient Safety

Significantly reduces clinical errors, improving patient outcomes and safety, especially in resource-limited clinics.

## 2 Scalable Solution

Easily scalable across hospitals, telehealth platforms, and rural healthcare settings, ensuring widespread accessibility.



## Demo: MedGuardAI in Action

A brief demonstration showcasing MedGuardAI's intuitive flow and real-time alert capabilities.

# Future Roadmap

