

# By:LYNK



## Problem Statement:

An AI-Powered Solution To decode Jargon and Understanding

Theme : HEALTH TECH

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# HENCE MEDLENS.

## PROBLEM STATEMENT

- Medical reports are primarily designed for doctors, not patients, making them difficult to understand for people from non-medical or low-literacy backgrounds. Complex terms, abbreviations, and numerical values such as MCV or Bilirubin often leave patients confused and anxious.
- Visual medical data like X-rays and MRIs further add to the challenge, as their insights are inaccessible without expert interpretation. This gap in understanding often pushes patients toward unreliable online sources, leading to misinformation and poor health decisions

AI-DRIVEN  
INTERPRETATION

BILINGUAL  
ACCESSIBILITY

INFORMATIONAL  
COMPANION

HEALTH LITERACY &  
TRUST

## Your Health, Simplified

An AI-powered healthcare support tool built to simplify complex medical reports.



## Clear Health Insights

Helps users easily and accurately understand their health data.



## MedLens

***AI That  
Speaks Health,  
Not Jargon***

## Interpretation, No Diagnosis

Acts as a support aid to interpret information — not a system that makes medical decisions



## Accessible for Everyone

Ensures medical details are clear, easy to comprehend, and available to all.



# FEASIBILITY & UNIQUENESS

- **Powered by Google GenAI:**

Utilizes Google's GenAI ecosystem for accurate, context-aware summarization and translation.

- **User-Friendly Design:**

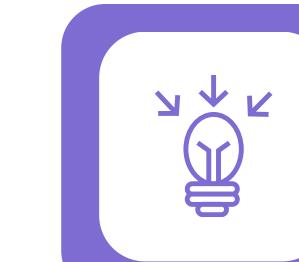
Features an intuitive interface that's easy to use for beginners and adaptable for hospitals, labs, and individuals.

- **Inclusive and Scalable:**

Supports multiple languages, ensuring accessibility across diverse user groups.

- **Actionable Understanding:**

Transforms complex medical



MULTIMODAL INTELLIGENCE



ACCESSIBLE AID



PATIENT EMPOWERMENT



DOCTOR FUNSHINE

# TECH STACK

## 🧠 Gemini 2.0 Flash (Google GenAI)

Core brain behind MedLens and Funshine, powering multimodal understanding, contextual summarization, and persona-based narrative generation.



## 🗣 AI Personas with Prompt Engineering

Custom persona prompts (DocLogic, CareBuddy, MemeLens, etc.) fine-tuned to deliver empathy, humor, and precision in medical communication.



## 🌐 Multilingual & Contextual Layer (Gemini Translation Logic)

Converts summaries into context-aware Hindi (not literal), retaining Indian medical context and empathy tone.



## 📄 OCR + NLP Fusion (pdfplumber + Tesseract + Gemini)

Extracts raw text from medical PDFs/images, refines it using intelligent parsing, and transforms jargon into human-understandable insights.



## 🎨 Dynamic UI Engine (Streamlit + Custom CSS Themes)

Adaptive dual-mode interface (Professional MedLens + Emotional Doctor Funshine) with responsive dark/light/funshine themes driven by session states.

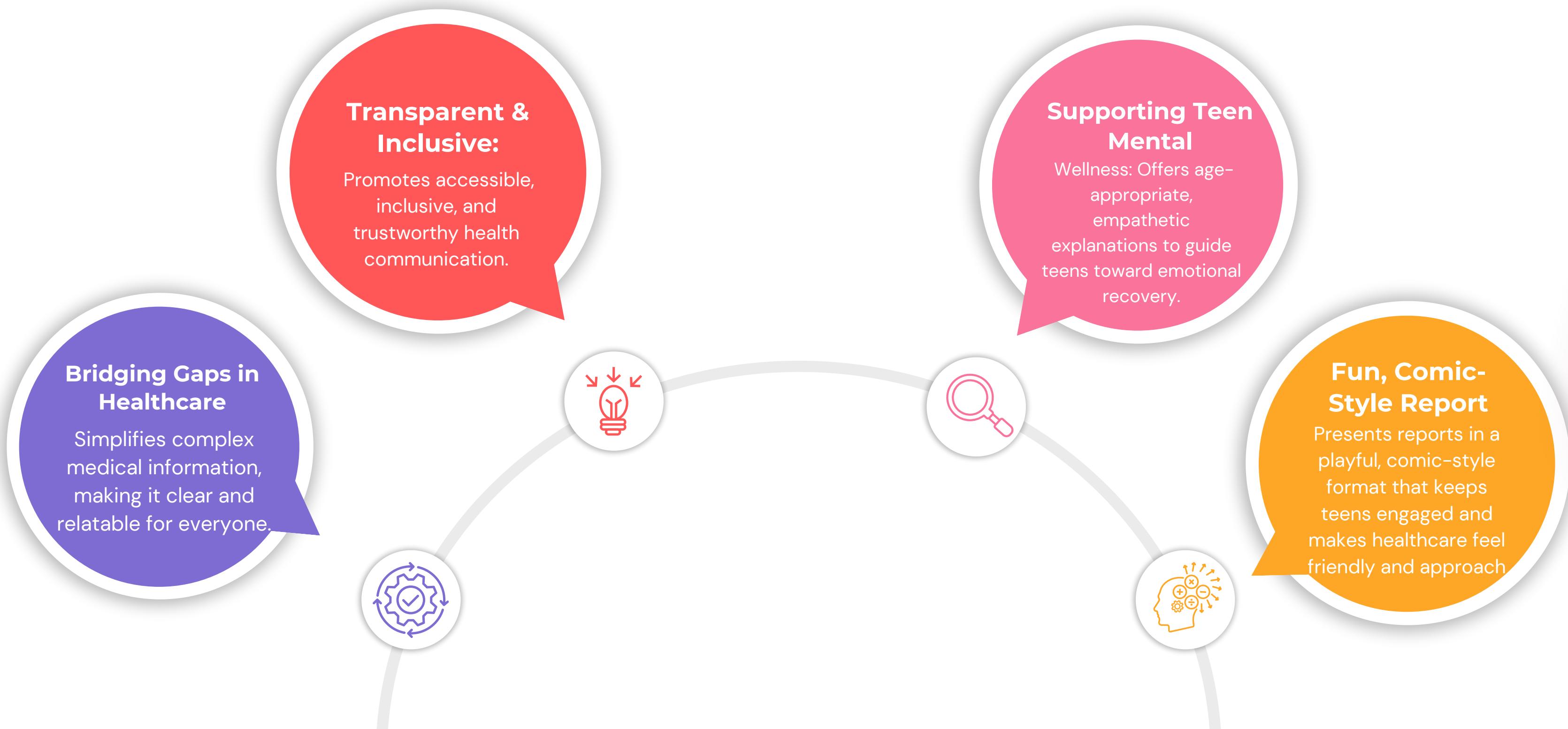


## ⚡ Integrated Sharing & Developer Tools

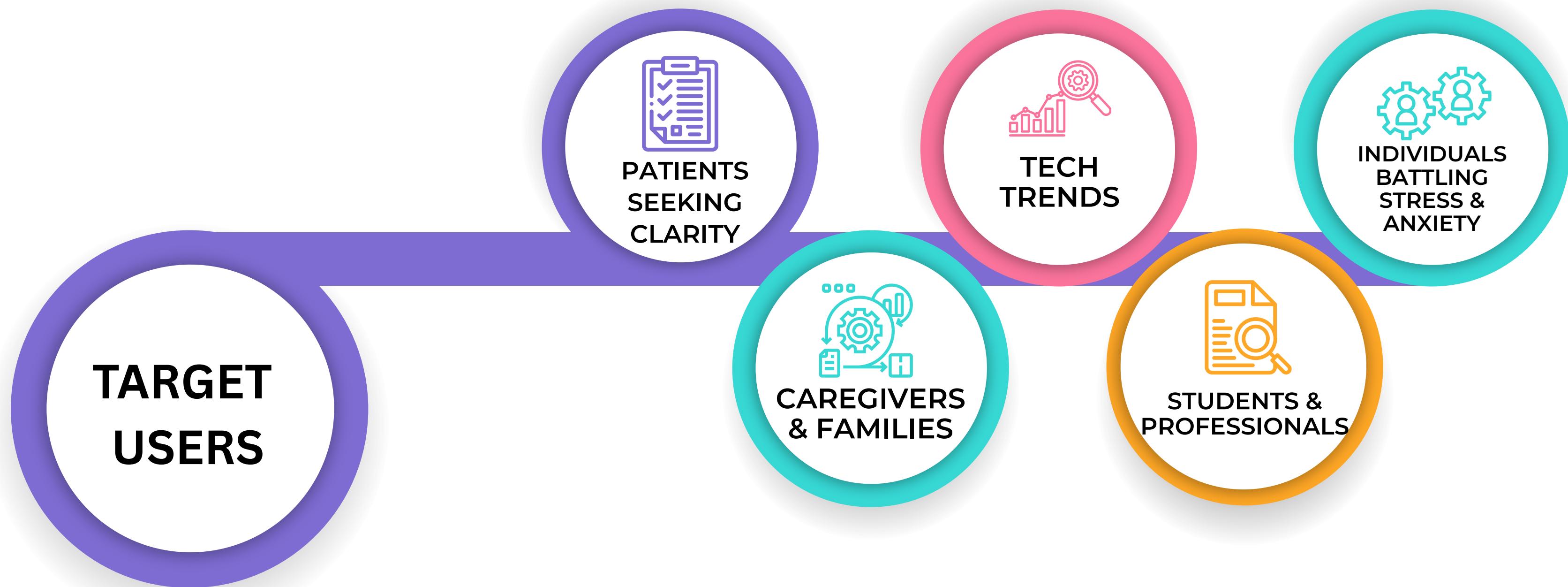
Instant WhatsApp/email sharing, token controls, and live model refresh through developer-side AI lab integration — making it both patient-friendly and developer-powerful.



# EXPECTED IMPACT



# TARGET USERS



# FUTURE VISION OF MEDLENS.

01

## CONVERSATIONAL ASSISTANT (TEXT-TO-SPEECH + CHATBOT)

A friendly, drivable AI that reads out reports in simple language, guides users through their data, and answers queries in real time.

02

## VISUAL INSIGHTS & SMART SUMMARIES

Converts complex medical data into easy visuals and generates both patient-friendly and clinical summaries for better clarity.

03

## REPORT TIMELINE & COMPARISON

Tracks your health progress with interactive timelines and side-by-side report comparisons.

04

## OCR + ANNOTATION

Automatically scans, highlights, and annotates key metrics from uploaded documents for quick insights.

# GLIMPSES OF MedLens

The screenshot shows the MedLens AI interface in Standard Mode. On the left, there's a sidebar titled "Control Panel" with options for "Standard MedLens" (selected) and "Doctor Funshine". It also includes settings for "Theme" (Dark Mode selected), "Language" (English selected), and "Summary Style" (Patient-Friendly selected). A "Secret Lab" section is present with a note for power users. At the bottom, there's a "Max Tokens" slider set at 300. The main area features the MedLens logo and the tagline "MedLens — AI That Speaks Health, Not Jargon". Below this is a "Professional Support Aid to know your health better." message and a file upload section with a "Drag and drop file here" button and a "Browse files" button. A note says "Upload report (PDF / PNG / JPG / JPEG / TXT)". A blue bar at the bottom encourages users to "Upload a report (PDF or image). For best results, use clear digital files."

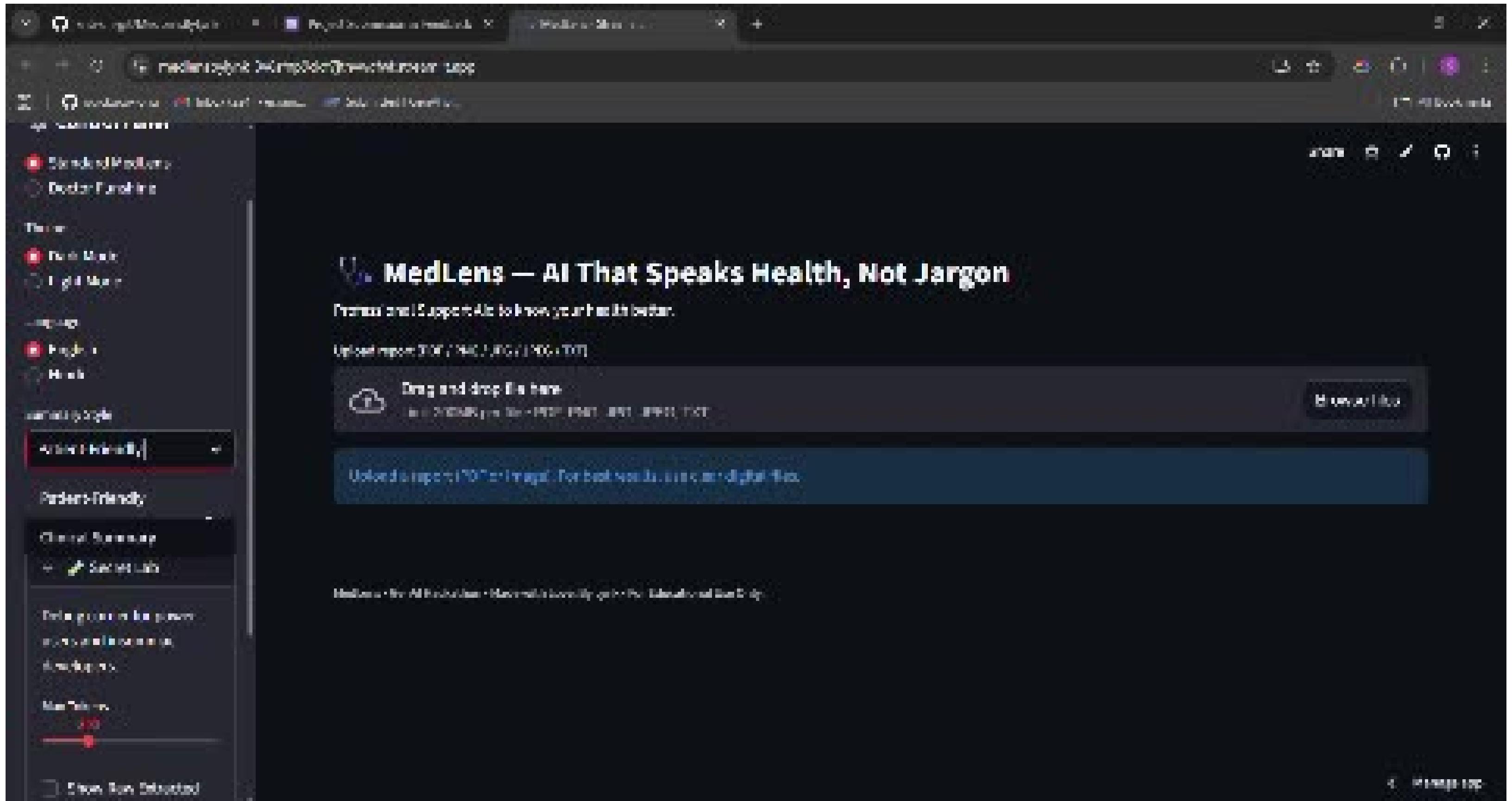
Click Here

<https://medlensbylynk-3v8sfnp9cicf7jthvwafwf.streamlit.app/>

The screenshot shows the MedLens AI interface in Doctor Funshine mode. The sidebar has "Doctor Funshine" selected under "Choose Funshine Persona" (CareBuddy (Kids Mode) is currently selected). Other persona options listed include CareBuddy (Kids Mode), DocLogic (Nerd Mode), MemeLens (Teens), HeroCare (Comics), and OtakuHealer (Anime). There's also a "Max Tokens" slider set at 300 and a checkbox for "Show Raw Extracted Text". The main area features the Doctor Funshine logo and the tagline "Doctor Funshine — Making Health Fun!". Below this is a "Do you know what your medical reports speak, haan?" message and a file upload section with a "Drag and drop file here" button and a "Browse files" button. A note says "Upload report (PDF / PNG / JPG / JPEG / TXT)". A blue bar at the bottom encourages users to "Upload a report (PDF or image). For best results, use clear digital files."

< Manage app

# DEMO VIDEO



# THANK YOU

BUSINESS INFOGRAPHIC

BY  
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