

Med Tools

AI-Powered Medical Tools Hub

medtools.net

Founded by Shruti Malik, MBBS, MHSA, CPhT

Pharmacy

Dermatology

Pathology

Hospital

The Problem

Fragmented Tools

Medical professionals juggle disconnected tools across pharmacy, dermatology, pathology, and clinical informatics with no unified platform.

AI Accuracy Gap

AI-generated medical content is often inaccurate, yet rarely audited. A 0% accuracy rate on Replit-generated histology images proves this.

Bias in AI Dermatology

Most dermatology AI tools are trained on limited skin-type datasets, creating diagnostic bias against darker skin tones.

Education Gaps

Medical students and pharmacy technicians lack accessible, AI-powered study tools tailored to board exam prep.

The Solution

Med Tools is a unified hub of AI-powered medical tools across four domains — designed exclusively for clinicians, pathologists, pharmacists, pharmacy technicians, and students.

PharmaLanding

pharmalanding.net

Pharmacy cost optimization, clinical decision support, exam prep

DermaLanding

dermassist.org

AI skin lesion analysis, bias-free triage, PDF reports

PathoLanding

Digital histology atlas, WHO 2021 classification, AI accuracy audits

HospitalLanding

NLP chatbot, clinical data insights, sentiment analysis

PharmaLanding

pharmalanding.net

RxSaverAI Live

AI-powered prescription price comparison across 70,000+ pharmacies. Free coupons, insurance vs. cash prices.

OpenAI GPT-4o | React | PostgreSQL | Replit

PharmTechTutor Live

PTCB exam prep — Top 200 Drugs flashcards, AI-generated quiz questions, instant drug study sheets.

Flask | Gemini API | Google Cloud Run

ClinRx Live

Clinical pharmacology assistant — drug interactions, renal/hepatic dose adjustments, comorbidity-aware analysis.

OpenAI GPT-4o | React | PostgreSQL

Published Research

"Data-Driven Procurement Methods Protect Pharmacies From Price Volatility"

Pharmacy Times — March 2026, Volume 92, Issue 3

DermaLanding

dermassist.org

DermAssist Live

AI-powered skin lesion classification with dual-model verification and downloadable PDF diagnostic reports.

Gemini Pro

Gemini 2.5 Pro

Neon PostgreSQL

PDF-lib

React

TanStack Query

2

AI Models for Verification

PDF

Downloadable Reports

SkinDeep Hackathon

Bias-free dermatology triage — addressing health equity using the Fitzpatrick 17k diverse skin-type dataset. Built with PyTorch EfficientNet and Streamlit.

PathoLanding

Pathology Atlas Live

Digital histology reference — 68+ CNS slides across 15 disease categories, WHO 2021 classification standards.

68+

Slides

15

Categories

WHO

2021 Standard

AI Accuracy Audit

Used Google Gemini (gemini-2.5-flash) to audit all 68 Replit-generated slide images for medical accuracy.

53

Inaccurate

15

Partial

0

Accurate

0% accuracy rate on Replit-generated medical images. All 68 regenerated with medically precise prompts. Full audit trail publicly accessible.

HospitalLanding

Hypotify Clinical Insights Bot Live

Context-aware NLP chatbot for clinical data insights — live on Streamlit with open-source code on GitHub.

Bi-LSTM

Intent classification across 20 clinical categories

VADER

Sentiment analysis on every user message

spaCy NER

Entity recognition for patient IDs, dates, orgs

3-Turn Context

Dialogue state tracking for follow-ups

100K

Patients

361K

Admissions

1M+

Lab Results

Published Research

"Machine Learning Chatbot Development: Bidirectional LSTMs, Advanced NLP Techniques, and Context-Aware Design in a Clinical Information System"

ITEC5025: Natural Language Processing in AI Chatbots

Tech Stack & Architecture

Frontend

React • TypeScript • Vite • Tailwind CSS • Shadcn/ui • TanStack Query • Wouter • Streamlit

Backend

Node.js / Express • Python / Flask • PostgreSQL • Neon • Drizzle ORM

AI / ML

OpenAI GPT-4o • Google Gemini • PyTorch • TensorFlow / Keras • spaCy • NLTK • Gensim Word2Vec • EfficientNet

Infrastructure

Replit • Google Cloud Run • Streamlit Cloud • Multi-step CAPTCHA • Dark Mode Default

Transparency & Safety

Informational Only

All tools for informational purposes only. No diagnostic or treatment claims. Continuous research disclaimer displayed.

Synthetic Image Labeling

Every Replit-generated histology image is clearly labeled as synthetic. Transparency in medical education is non-negotiable.

Full Audit Trails

Text corrections, image accuracy ratings, and regeneration actions — all documented and publicly accessible.

Professional Access Gate

Multi-step CAPTCHA: trajectory-analyzed slider, math verification, and proof-of-work challenge.

Audience Control

Designed exclusively for clinicians, pathologists, pharmacists, pharmacy technicians, and students.

AI Auditing AI

Used Gemini to audit Replit-generated slide content — proving the need for systematic accuracy verification of AI-generated medical images.

Let's Connect

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Podcast

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