

Keshav Ghai

MERN Developer & Aspiring AI Engineer

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GitHub Portfolio

PROFESSIONAL SUMMARY

Full Stack Developer & AI Engineer with strong expertise in full-stack web development and data structures. Experienced in building production-ready web applications using modern JavaScript frameworks, with a growing focus on AI/ML integration and automation. Active technical community leader with proven track record in organizing hackathons and mentoring junior developers.

EDUCATION

NxtWave Institute of Advanced Technologies Dropped Out

B.Tech Computer Science Engineering (AI/ML Specialization)

Noida International University | Industry-aligned curriculum covering MERN Stack, DSA, System Design & AI/ML

Punjab Board of School Education (PSEB) 2024

Senior Secondary (Class 12)

Score: 84% | JEE Mains 2024: 84.1 Percentile

Punjab Board of School Education (PSEB) 2022

Secondary (Class 10)

Score: 83.53%

EXPERIENCE & LEADERSHIP

Freelance Full Stack Developer 2025 - Present

Green LeafX | Sustainability Education Platform

- Built a comprehensive educational platform for sustainability with automated video feeds and course modules.
- Developed robust backend using Python/Flask on PythonAnywhere and integrated YouTube Data API v3.
- Designed responsive 'Eco' themed UI with glassmorphism effects and custom admin dashboard.

Operations Head 2025 - 2026

Advanced Tech Club, NxtWave Institute

- Lead organizing technical workshops, hackathons, and competitive programming sessions
- Manage club operations, member engagement, and event coordination
- Facilitate peer learning initiatives and mentor junior developers
- Organize hackathons with 100+ student participants

Buildathon Participant 2025

NxtWave Institute | 3-Day Hackathon

TECHNICAL SKILLS

Frontend

HTML5, CSS3, JavaScript, TypeScript, React 18, Tailwind CSS, Bootstrap, shadcn/ui

Backend

Node.js, Express.js, FastAPI (Python), REST APIs, JWT Authentication

Databases

MongoDB (Atlas, Motor, Beanie ODM), PostgreSQL, SQL

Programming Languages

Python, JavaScript/TypeScript, C++, SQL

AI/ML Tools

TensorFlow, Ollama (Local LLMs), OpenCV, NumPy, Pandas, Matplotlib, OCR (Tesseract.js), Prompt Engineering

Tools & Platforms

Git/GitHub, VS Code, Google Colab, Electron, Axios, Winston Logging

Deployment

Vercel (Serverless), Netlify, MongoDB Atlas

Specializations

Data Structures & Algorithms, System Design, AI/ML Integration

KEY STRENGTHS

- Full-Stack Development:** End-to-end web application development with MERN stack
- Problem Solving & DSA:** Strong foundation in data structures and algorithmic thinking
- Quick Learner:** Proven ability to rapidly adopt new technologies and frameworks

- Developed full-stack web application with integrated frontend and backend
- Collaborated with teammates to deliver functional product within 72 hours
- Implemented responsive UI and robust backend architecture

PROJECTS

Guidon's Eye | Privacy-First Productivity Assistant

Status: *Prototype Ready*

Desktop productivity assistant that tracks active applications, provides context-aware nudges, and integrates with conversational AI backend to boost focus and automation. Built as lightweight desktop overlay for developers and knowledge workers.

Technology Stack: Electron, Node.js, MongoDB (Local), Google Gemini, Perplexity Sonar, Axios, Winston Logging.

Key Features: Application activity tracking • Context-aware productivity nudges • Conversational AI integration • Privacy-focused local data storage • Desktop HUD interface

TensorFlow Multi-Model AI Suite

Status: *Active Development*

A continuously expanding library of production-ready machine learning models spanning Computer Vision, NLP, and Predictive Analytics. Features diverse implementations—from CNNs and BiLSTMs to advanced Unsupervised Learning algorithms for healthcare, content moderation, and pattern recognition.

Technology Stack: TensorFlow 2.x, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib.

Key Architectures: CNN, BiLSTM, RNN, Autoencoders, Transfer Learning, Clustering (PCA/t-SNE).

LawBuddy AI | Intelligent Legal Assistant

Status: *Complete*

AI legal assistant powered by a custom, locally-hosted LLM built via fine-tuning — zero external API calls, zero cloud dependencies. Runs entirely on-device for maximum privacy, providing real-time legal analysis, AI-assisted document drafting, and full case management.

Technology Stack: Custom Ollama Model (LawBuddy:latest), Node.js, Express.js, JSON file-based DB, HTML5/CSS3/JS.

Key Features: Custom local LLM • AI-powered legal analysis • Document drafting • Case management • Privacy-first architecture

MedSafe | AI-Powered Medication Safety Platform

Status: *Prototype Ready*

AI-powered medication safety and verification platform designed to combat counterfeit medicines and prevent dangerous drug interactions. Enables patients, pharmacists, and healthcare providers to verify medication authenticity and access real-time safety intelligence.

Technology Stack: React 18, TypeScript, TailwindCSS, shadcn/ui, Recharts, PostgreSQL, Edge Functions, Google Gemini 2.0 Flash, Tesseract.js (OCR).

Key Features: Drug interaction analysis • Counterfeit medication detection • Healthcare provider dashboard • Real-time safety intelligence

CodeChicks | Developer Community Platform

Status: *Live*

Full-stack developer productivity platform with polling-powered global chat, persistent floating timer, personalized dashboards with analytics, and multi-

- **Leadership & Teamwork:** Experience leading technical teams and mentoring peers
- **AI/ML Integration:** Practical experience integrating AI APIs into production applications
- **Public Speaking:** Comfortable presenting technical concepts to diverse audiences
- **Adaptability:** Flexible approach to changing requirements and project scopes

LANGUAGES

English — Fluent

Hindi — Fluent

Punjabi — Fluent

INTERESTS

Game Development • Competitive Programming • AI & Machine Learning • Web Architecture • Writing & Technical Blogs • Anime & Gaming • Open Source Contribution

provider OAuth. Styled with modern Frost/Cyber aesthetic using glassmorphism effects.

Technology Stack: Python, FastAPI, Beanie (MongoDB ODM), Polling architecture, Authlib, Python-Jose (JWT), HTML5, CSS3, Vanilla JS.

Key Features: Real-time global chat • Multi-provider OAuth • Floating timer widget • Analytics dashboards • Glassmorphism UI

Notes API | RESTful Backend Service

Status: Complete

Scalable RESTful API built with Node.js and Express featuring secure authentication, CRUD operations, and MongoDB persistence.

Technology Stack: Node.js, Express.js, MongoDB, JWT Authentication.

For more projects, checkout [My Portfolio](#)