

# Keshav Ghai

MERN Developer & Aspiring AI Engineer

+91 7657805107 | ghaikeshav55@gmail.com | Greater Noida, India

[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.

**Available For:** Custom websites & landing pages • Full stack MERN applications • Python automation scripts • API integration & backend development • UI/UX implementation & responsive design

## 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** *Current*

**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

## 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, 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

## NxtWave Institute | 3-Day Hackathon

- 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

## TECHNICAL PROJECTS

## 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, analyze interaction risks, and access real-time safety intelligence.

**Technology Stack:** React 18, TypeScript, TailwindCSS, shadcn/ui, Recharts, PostgreSQL, Row Level Security, 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

## 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 seeking distraction-free productivity.

**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

## CodeChicks | Developer Community Platform

*Status: Live*

Full-stack developer productivity platform centered on real-time collaboration and community engagement. Features polling-powered global chat system for seamless developer communication, persistent floating timer widget for focus sessions, personalized dashboards with analytics, and multi-provider OAuth. Styled with modern Frost/Cyber aesthetic using advanced glassmorphism effects.

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

**Key Features:** Real-time global chat • Multi-provider OAuth • Floating timer widget • Personalize analytics dashboards • Glassmorphism UI design

## Notes API | RESTful Backend Service

*Status: Complete*

Scalable RESTful API built with Node.js and Express featuring secure authentication, CRUD operations, and MongoDB persistence. Demonstrates industry best practices in error handling, validation, and database schema design.

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

**Key Features:** Secure note management • User authentication • Input validation • Scalable architecture

## TensorFlow Multi-Model AI Suite

## • Leadership &amp; 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

*Status: Active Development*

A continuously expanding library of production-ready machine learning models spanning Computer Vision, NLP, and Predictive Analytics. Features a diverse range of implementations—from foundational CNNs and BiLSTMs to advanced Unsupervised Learning algorithms. Serves as a modular experimentation suite for healthcare, content moderation, and automated pattern recognition challenges.

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

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

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