

SUMAN KUMAR JHA

☎ 8303322732 ✉ sumankj08@gmail.com 🔗 LinkedIn 🐙 GitHub 📁 Portfolio 📍 Lucknow, India

SKILLS

Languages & Core :	HTML, CSS, JavaScript, C++, Python, Java, TypeScript, SQL, OOPs, DSA
Databases :	PostgreSQL, Prisma, MySQL
Frameworks & Libraries :	React 18, Vite, Tailwind CSS, Framer Motion
Tools & Platforms :	VS Code, Figma, Canva, Git/Github
Soft Skills :	Leadership, Communication, Adaptability

PROJECTS

AXiOM — AI Fairness & Bias Detection Platform | 🐙 Github 🌐 Website

- Built a full-stack bias detection platform (React, FastAPI, Python) that audits datasets and documents for algorithmic bias using fairness metrics including Demographic Parity, Disparate Impact, and Equalized Odds
- Developed an NLP-based document auditor covering 9 bias categories and one-click bias mitigation via reweighing, mapped to EU AI Act, EEOC Title VII, and GDPR compliance requirements
- Integrated Google Gemini 2.5 Flash for real-time fairness Q&A and deployed the platform on Vercel (frontend) and Hugging Face Spaces (backend), with JWT-based authentication

Technologies / Tools Used : React, FastAPI, Python, Scikit-learn, Fairlearn, Supabase, Pandas

ResolveFlow — Customer-Support Agent Benchmark | 🐙 Github

- Built ResolveFlow, an OpenEnv-compliant benchmark environment (FastAPI + React) that evaluates LLM agents on policy-grounded customer-support decision-making across 3 difficulty tiers
- Designed a deterministic 7-dimension grader and dense reward-shaping system; containerized with Docker and deployed to Hugging Face Spaces, with baseline evaluations across GPT-4-Turbo, GPT-4o-mini, and GPT-3.5

Technologies / Tools Used : Python, FastAPI, Pydantic, React, Docker

Crop Doctor AI — AI-Powered Crop Disease Detection Platform | (SIH) | 🐙 Github

Lead Developer

- Built a full-stack Next.js app for SIH that diagnoses crop diseases from photos using Google Gemini 2.5 Flash, returning severity, confidence, and treatment recommendations in seconds
- Designed a fertilizer recommendation engine (50+ fertilizers, 20+ crops) with government vs. market pricing, plus 22-language support and text-to-speech for farmer accessibility
- Built an offline-capable Farm Diary (Prisma + IndexedDB) for tracking crop and disease history, addressing rural connectivity gaps

Technologies / Tools Used : Next.js, TypeScript, Prisma, Google Gemini API, React

EDUCATION

Dr. APJ Abdul Kalam Technical University | Lucknow

2024 - 2028

Bachelor of Technology

- **Bachelor of Technology** in Computer Science and Engineering

SKD Academy | Lucknow

2022 - 2023

12th

- Science (PCM)