# Pihu Jain

+91 78696 93311 | connect.pihujain@gmail.com | linkedin.com/in/p1hhuul | github.com/pihujain

## EDUCATION

**VIT Bhopal University** — CGPA: 8.5
*B.Tech in Computer Science and Engineering (Cloud Computing and Automation)* — *Aug 2023 – Present*

**St. Joseph's Convent Hr. Sec. School, Itarsi** — X - 89%, XII - 74%
*Senior Secondary, CBSE* — *Aug 2008 – July 2022*

## TECHNICAL SKILLS

**Programming:** Python, C/C++, JavaScript, OOPs, Data Structures & Algorithms
**DevOps & Deployment:** Docker, Firebase, Vercel, Cloudflare, RESTful APIs
**Data Science:** Data Analysis, Deep Learning, GANs, NLP, Image Processing , Data Visualization
**Libraries & Frameworks:** Pandas, NumPy, FastAPI, Hugging Face Transformers
**Tools & Platforms:** Git, AWS S3 Bucket, Power BI, MS Excel, PowerPoint, Figma

## EXPERIENCE

**Project Director, Founding Member** — May 2024 – Feb 2025
*Shunnaya (Cybersecurity Startup)* — *Remote*

- Led a 10+ member team to architect, develop, and deploy a full-stack automated management platform for a major event and wedding planning company; handling WordPress, React, Next.js development, backend infrastructure, server hosting, deployment pipelines, and web performance optimization.

## PROJECTS

**GapstractAI** | *Next.js, Tailwind, ShadCN, Vite, FastAPI, NLP, Hugging Face*

- Developed a full-stack AI-driven research assistant to help students generate unique problem statements by analyzing paper abstracts, extracting metadata, summarizing literature using NLP models (T5/BERT), and surfacing semantic gaps. Designed as a one-stop platform for research exploration, ideation, and academic acceleration.

**IoT-Enabled Soil Monitoring System** | *Arduino Mega, Sensors, Cloud Dashboard, IoT*

- Designed and deployed a real-time IoT soil monitoring system using Arduino Mega and multi-sensor arrays (gas, humidity, temperature, PIR, LDR) for edge data processing. Enabled cloud dashboard integration, remote alerts, and actuator feedback for precision agriculture. Optimized for low-latency communication and environmental adaptability.

**Cab Booking Application** | *Flutter, Firebase, Google Maps, Razorpay, WebRTC*

- Engineered a scalable ride-booking platform with real-time location tracking, secure Razorpay integration, and AI-based driver-passenger matching. Built the Flutter frontend, implemented Firebase Authentication, Firestore, and integrated Google Maps, WebRTC for live chat, Geofire for geolocation, and cloud media handling with encrypted data streams.

## PUBLICATIONS & PATENTS

**Research Paper: "Centralized Health Record Platform under UHI & ABDM"** — Details

- Published a system architecture for secure, AI-enabled, interoperable healthcare records integrating genetic insights for precision healthcare in the Indian ecosystem. (Smart India Hackathon 2024 Semi Finalist)

## EXTRACURRICULAR

**Null VIT Bhopal Student Chapter** — Feb 2024 – Mar 2025
*null - The Open Security Community* — *Madhya Pradesh, India*

- Led the Tech Team to organize national-level hackathons and CTF competitions with 800+ participants, and designed Android/Web penetration testing challenges.
- Mentored hackathon participants in ideation, development, and project pitching, improving innovation success rates and reducing deployment time by 30%.