

# Anuj Jain

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IoT and Machine Learning enthusiast with expertise in data analysis & generative AI tools, passionate about building intelligent systems that bridge hardware and software.

## TECHNICAL SKILLS

Category	Proficient In	Familiar With
Languages	Python, SQL	Java, C++, JavaScript, HTML/CSS
Frameworks & Libraries	Scikit-learn, TensorFlow, XGBoost, Pandas, NumPy, Flask, Django	React.js, Seaborn, OpenCV, Firebase SDK
Tools & Platforms	Git, Docker, VS Code, Jupyter, Unix Shell, Android Studio	Postman, GitHub Actions, Heroku, Firebase
AI & ML Expertise	Generative AI Development, AI Agent Development, ChatGPT Integration, LLM Integration, AI Chatbot Development	ML Model Engineering, AI Consulting, ML/Data Science Consulting

## EXPERIENCE

- MookMati (E-commerce Book Startup)** | *Software Engineering Intern* July 2024
- Built scalable **Python backend** for **cart & checkout** (↑ transaction speed by **30%**) and optimized **inventory sync** via **REST APIs** (↓ stock issues by **25%**).
  - Delivered **4+ features** (incl. **real-time price tracker** in **React.js**) in **Agile** team; improved **code coverage to 85%** by fixing **15+ production bugs** and adding **unit tests**.
- Fiverr** | *Freelance Python Developer* Aug 2023
- Delivered **20+ Python automation solutions** (web scraping, data pipelines), cutting manual work by **60%**.
  - Built robust **Flask/Django APIs** with payment integrations and optimized legacy code, improving speed **3x**.

## PROJECTS

- Low-Cost Smart Chessboard with Cloud Integration** | *IoT Hardware/Software System* May 2025
- Built an **IoT-enabled chessboard** using **ESP32**, multiplexers, and **64 reed switches** with **98.2% move detection accuracy** at 1/8th commercial cost; implemented **Firebase cloud logging**, a **React dashboard**, and **Stockfish** integration.
  - Led a 3-member team through end-to-end development (PCB prototyping, firmware, testing with 20+ users); optimized **chess logic in Python** and sensor polling, reducing power consumption by **40%**.
- hideFlare: CDN Obfuscation Detection System** | *Smart India Hackathon 2024 Finalist (MP Police)* Jan 2025
- Selected as one of the **top 5 national teams** (out of 88,000+) to build a cybersecurity tool for MP Police, analyzing **2,000+ suspicious domains** using a **6-layer detection system** with **DNS forensics**, **TLS fingerprinting**, and **ML (XGBoost)** — achieving **92% accuracy**.
  - Developed a **Flask + Scikit-learn backend** processing 50+ features (ASN, WHOIS, HTTP headers); deployed via **Docker** in cyber labs. Judges recognized our **IP geolocation correlation** method, which reduced false positives by **37%**.

## EDUCATION & CERTIFICATIONS

<b>Samrat Ashok Technological Institute</b> B.Tech in Internet of Things <b>GPA: 8.34 / 10.0</b>	<i>June 2026</i>	<b>Certifications</b> <ul style="list-style-type: none"><li><u>Joy of Computing with Python</u> – <i>IIT Madras (NPTEL Elite + Silver)</i></li><li><u>Machine Learning Specialization</u> – <i>Stanford (Coursera)</i></li><li><u>Meta Front-End Developer</u> – <i>Meta (Coursera)</i></li><li><u>Java Programming &amp; Software Engineering</u> – <i>Duke (Coursera)</i></li></ul>
<b>Board of Secondary Education, MP</b> Class XII (Science Stream) <b>Marks: 96.4%</b>	<i>March 2021</i>	

## ACHIEVEMENTS & AWARDS

- Secured **2nd position** among 88,221 teams (492,960 participants) in **Smart India Hackathon 2025**.
- Awarded the HDFC Badhte Kadam Scholarship for academic excellence and potential in year 2023 & 2024.
- Secured **3rd position** in **Robo Race** at Satyarth Techfest 2023 by designing an autonomous car using ESP32.