New Delhi, India

८ +91-70501-88600 **⋈** aviraj1729@gmail.com

📊 linkedin.com/in/aviraj1729 👩 github.com/hawkjack1729 🖶 Portfolio

EDUCATION

Year	${f Degree/Exam}$	Institute	CGPA/Marks
2021 - 2025	B.Tech (Automation & Robotics)	GGSIPU, New Delhi	8.10 CGPA
2018 - 2020	AISSCE (CBSE)	ST JOHNS ACADEMY	86.8%

TECHNICAL SKILLS

- Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL.
- Technologies & tools: TensorFlow, Django, Flask, FastAPI, ReactJS, Tailwind CSS, Bootstrap CSS, Git, GitHub, REST APIs, AWS, Docker, MySQL, PostgreSQL, MongoDB, Linux.

PROFESSIONAL EXPERIENCE

UDIP Technologies Pvt. Ltd.

Aug. 2023 - Sept. 2024

Computer Vision Intern

New Delhi, India

- Collaborated with a 5-member R&D team to build computer vision systems, improving model efficiency by 20% across 3+ industrial setups.
- Trained YOLOv7 on 10,000+ labeled images, achieving 95% accuracy in field testing under varied lighting.
- Enhanced YOLOv7 precision by 15% through hyperparameter tuning for low-light detection.
- Technologies Used: Python, Django, OpenCV, YOLOv7.

PROJECTS

Chatty May 2025

- Developed a real-time chat app with **group/personal** messaging and password or TOTP-based login for **200+ users**.
- Improved UX by 35% with file sharing, typing indicators, and read receipts.
- Reduced fake signups by 60% using OTP-based registration with email and phone verification.
- Achieved <200ms message latency via Redis socket caching and file rate-limiting.
- Built scalable backend using Node.js (MVC), MongoDB, and Socket.IO for real-time messaging.
- Technologies Used: React is, Node is, Socket IO, MongoDB, Redis, JWT, TOTP, TailwindCSS.

June 2025

- Deployed a live QR-based email system to streamline event registrations, increasing personalized engagement by 30%.
- Built a full-stack app with React, Node is, and PostgreSQL to generate 500+ QR codes, boosting user by 25%.
- Created a real-time dashboard using Socket.io to track 500+ QR scans and submissions, improving operational
- Integrated Supabase Auth and Redis for secure, performant session handling, reducing auth failures by 40%.
- Technologies Used: React.js, Node.js, Supabase, Redis, PostgreSQL, Socket.io, TailwindCSS, Render, OAuth.

- Developed a vision-based photo sharing app to streamline distribution at large events using browser-side facial recognition.
- Implemented face matching with face-api.js for client-side photo access control, enabling secure retrieval of 10,000+ images.
- Designed responsive UIs using React and TailwindCSS for smooth event and photo management, improving UX by 35%.
- Integrated SendGrid for automated email notifications and updates, boosting user engagement by 40%.
- Technologies Used: React.js, Django, MongoDB, TailwindCSS, face-api.js, SendGrid.

Facial Recognition Systems

Apr - June 2023

- Replaced static login systems by implementing a facial authentication solution, reducing login time by 60%.
- Enhanced security with real-time liveness detection and anti-spoofing techniques using OpenCV and Face Recognition.
- Developed a React-based admin dashboard to visualize 500+ authentication logs and manage dynamic access roles.
- Technologies Used: OpenCV, Face_Recognition, React.js, Bootstrap.

LEADERSHIP & VOLUNTEERING

KaruYantra: The Robotics Society, GGSIPU

Aug 2023 - July 2024

Senior Coordinator

• Organized 5+ technical workshops, reaching 300+ students with 87% positive feedback.

• Led a team of 15+ members as the Core Team Lead of the Robotics Society of GGSIPU.

Hostel Welfare Committee, GGSIPU

Sep 2023 - Jun 2024

President

New Delhi, India

New Delhi, India

• Spearheaded initiatives improving facilities for 300+ residents, achieving 83% satisfaction in student surveys.