

# AVI RAJ

New Delhi, India

☎ +91-70501-88600

✉ [aviraj1729@gmail.com](mailto:aviraj1729@gmail.com)

🌐 [linkedin.com/in/aviraj1729](https://www.linkedin.com/in/aviraj1729)

🐙 [github.com/hawkjack1729](https://github.com/hawkjack1729)

## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021 – Present	B.Tech (Automation & Robotics)	GGSIPO, New Delhi	8.3 CGPA
2018 – 2020	AISSCE (CBSE)	ST JOHNS ACADEMY	86.8%

## PROFESSIONAL EXPERIENCE

### UDIP Technologies Pvt. Ltd.

Aug. 2023 – Sept. 2024

*Computer Vision Intern*

*New Delhi, India*

- Developed computer vision algorithms for **visual data analysis** and collaborated on **optimizing vision systems** for various applications.
- Trained YOLOv7 models with **10,000+ images**, achieving **95% success** in object detection using deep learning techniques.
- Improved computer vision models using deep learning and validated smart badge performance in **real-world trials**, achieving **63% success** in object detection.
- Technologies Used:** Python, Django, OpenCV, YoloV7.

## PROJECTS

### PhotoMingle

July – Sept 2024

- Developed a web application for exchanging event photos using **computer vision algorithms**.
- Implemented event creation, invitations, and photo downloads via **facial recognition**.
- Designed **user-friendly** interfaces for seamless event and photo management.
- Enabled automatic email notifications for event updates using **SendGrid**.
- Technology Used:** ReactJS, HTML, TailwindCSS, Django, MongoDB, AWS Rekognition, SendGrid.

### CollegeBrusters Web App

Apr – June 2023

- Developed a web application offering **real-time** access to class schedules, attendance records, and marks.
- Implemented **secure user authentication** and **authorization** to protect sensitive data.
- Integrated APIs** to fetch and update real-time academic information.
- Developed **role-based access control** for students, faculty, and administrators.
- Enabled **performance analytics** for students, with detailed reports on grades and attendance trends.
- Technology Used:** Django, MongoDB, TailwindCSS, HTML, API.

### Facial Recognition Systems

Apr – June 2023

- Developed a facial authentication system using **Face\_Recognition library** for feature extraction and comparison.
- Implemented live detection techniques to **enhance security** and **prevent spoofing attacks**.
- Built an admin dashboard to view recognition logs and manage user authentication settings.
- Integrated **ReactJS** for the frontend and **Bootstrap** for a responsive user interface.
- Technology Used:** OpenCV, Face\_Recognition, ReactJS, Bootstrap.

## TECHNICAL SKILLS

- Programming:** Python, C/C++, Java, JavaScript, TypeScript, SQL.
- Frameworks:** TensorFlow, Django, Flask, FastAPI, ReactJS, Tailwind CSS, Bootstrap CSS.
- Development:** Git, GitHub, REST APIs, AWS, Docker.
- Tools and Platforms:** MySQL, PostgreSQL, MongoDB, Linux(Arch, Ubuntu), Neovim, VSCode.

## LEADERSHIP & VOLUNTEERING

### KaruYantra: The Robotics Society, GGSIPU

Aug 2023 – July 2024

*Senior Coordinator*

*New Delhi, India*

- 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*

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