AVI RAJ

New Delhi, India

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021 – Present	B.Tech (Automation & Robotics)	GGSIPU, New Delhi	8.11 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

QRVars   **June 2025**

- Developed**QRVars,** a system where users create QR codes linked to emails with variable content in subject and body.
- Upon scanning, users fill a form replacing variables; they're redirected to their email app with a prefilled, personalized message.
- Built **real-time dashboard with Socket.io** to track scans, submissions, and email generation activity.
- Architected full-stack app using **React.js, Node.js/Express, Supabase (auth + DB), and Redis via Upstash** for session caching.
- Enabled secure SMTP-based email delivery through **Render**, ensuring reliable dynamic content handling.
- **Technology Used:** Socket.io, NodeJs, TailwindCSS, ReactJs, Redis, PostgresSQL, Render, OAuth.

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.

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.