



# Avi Raj

Bachelor of Technology

Automation and Robotics

Guru Gobind Singh Indraprastha University EDC Delhi

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GitHub

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## EDUCATION

### •Bachelor of Technology in Automation and Robotics

2021-25

UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi

CGPA: 8.56

### •Intermediate

Year: 2020

ST JOHNS ACADEMY Daulatpur Chandi Vaishali Bihar

Percentage: 86.80

## PERSONAL PROJECTS

### •PhotoMingle

ongoing

A web application which allow users to exchange their photos of event.

- Developing a web app for event creation, invitations, and photo downloads via facial recognition.
- Implementing email invitations using SendGrid & deploying on AWS for high availability.
- Designing user-friendly interfaces for seamless event and photo management.
- Conducting extensive testing to ensure reliability and a smooth user experience.
- Enabling invitees to search and download event photos efficiently, enhancing user satisfaction.
- Technology Used: ReactJs, HTML, TailwindCSS, Django, MongoDB, AWS Rekognition, SendGrid, AWS

### •CollegeBrusters web app

Apr - June 2023

Web app that offers real-time access to class schedules, attendance records, and marks.

- Intuitive interface empowers students to stay organized and up-to-date, enhancing their academic performance and overall college experience.
- Implemented secure user authentication and authorization to protect sensitive data.
- Integrated APIs to fetch and update real-time academic information.
- Technology Used : Django, MongoDB, TailwindCSS, HTML, API.

### •Facial Recognition Systems

July - Aug 2022

A facial authentication system implemented using OpenCV

- Developed a Facial Recognition System that accurately recognized and localized faces in real-time images and videos.
- Implemented live detection techniques to enhance security and prevent spoofing attacks.
- Integrated APIs to fetch and update real-time academic information.
- Technology Used: OpenCV, Face\_recognition, ReactJs, Bootstrap.

## EXPERIENCE

### •Automation and CNC Training

AUG 2023

COE SIEMENS, PEC Chandigarh

Offline

- Developed a comprehensive understanding of SIMATIC Controllers (Programmable Logic Controllers with HMI) and their application in industrial automation.
- Acquired hands-on experience in programming and configuring SIMATIC S7-1500 PLCs for various automation tasks.
- Operated and configured Siemens 808D Turning Kit and 808D Milling Kit for CNC machining operations, including setup, tooling, and machining processes.
- Applied theoretical knowledge of CNC machining principles to practical scenarios, emphasizing safety protocols and adherence to industry standards.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C/C++, Python, Javascript, HTML+CSS

**Libraries :** OpenCv, Yolov7, ReactJs

**Web Dev Tools:** Nodejs, VScode, Git, Github, IDx, Neovim

**Frameworks:** Django, ReactJs

**Cloud/Databases:** MongoDB, Relational Database(mysql)

**Relevant Coursework:** Data Structures & OOPS, Fundamental of Automation, Introduction to Robotics, Linear Algebra, Advanced Robotics, Cobotics, Control Theory, Database Management System, Software Engineering.

**Areas of Interest:** Robotics, UAVs, Computer Vision, SLAM, ROS.

## POSITIONS OF RESPONSIBILITY

### •Core Lead Karu Yantra Robotics Club

Aug 2023 - Present

- Mentored a group of 15 members.