

ARNAV SINGH

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Education

Delhi Public School (95.3%)

Central Board of Secondary Education , Class 10

July 2019

Bhopal, Madhya Pradesh

Delhi Public School (95.1%)

Central Board of Secondary Education , Class 12

July 2019 – July 2021

Bhopal, Madhya Pradesh

MS Ramaiah Institute of Technology (CGPA:9.41)

Bachelor of Science in Information Science and Engineering

November 2021 – November 2025

Bengaluru, Karnataka

Experience

Faircent

Full Stack Developer Intern

September 2022 – October 2022

Gurugram, Haryana

- Led the creation of a robust **Node.js backend and React frontend** for user management, secure storage and streamlined identity verification process.
- Implemented OCR technology with React and NPM packages to automate user authentication, validation, and profile management, resulting in a **reduction in manual verification time and improved user experience**.

Club Cypher

Head Developer

July 2019 – October 2020

Bhopal, Madhya Pradesh

- Directed and supervised the web development team at Club Cypher of 20+ developers**, an active tech club cultivating innovation-optimized website performance, resulting in a increase in user engagement and interaction.
- Orchestrated and facilitated workshops, hackathons, and coding competitions** within the club, promoting knowledge sharing and skill enhancement with an active participation of **250+ students and developers**.

Projects

Lantana Removal and Circular Green Economy | *React, Node, Python* | [Repo Link](#)

July 2024

- Utilized **semantic segmentation** techniques to identify lantana coverage from aerial images and estimated the area of lantana infestations in **pixel units** with an average **mIOU score of 82 Percent**.
- Spearheaded the integration of an Admin dashboard, which consolidated management functions into one platform; reduced administrative workload by **10-15 hours** per month.

RailVision, CCTV guided Railway Management System | *Pytorch, OpenCV, DeepSort* | [Repo Link](#)

October 2023

- Designed an intelligent video analytics solution that monitors real-time footage; enhanced work monitoring efficiency and reduced manual oversight.
- Formulated Crowd Management using **DeepSort Tracking, Heatmaps, Threshold alerts Via SMS Based System** as well as Workflow Management with an average precision of **61 percent**.
- Deployed an **Integrated dashboard** to relay processed information in real-time.

ASL interpreter and translator using machine learning | *React, Python, OpenCV* | [Repo Link](#)

November 2022

- Constructed a comprehensive ASL detection model utilizing OpenCV and deep learning methodologies; trained the model on a self-created dataset of **10,000 annotated images**.
- Achieved an **mAP of 73 percentage** for first 14 characters of english alphabet where the model was successfully detecting the hand signs.

Technical Skills

Languages: Java, HTML/CSS, JavaScript, SQL, NoSQL, Python.

Developer Tools: VS Code, Git.

Libraries: OpenCV, Pandas, Numpy, Matplotlib.

Technologies/Frameworks: React, Express, Node, AWS Cloud.

Achievements

- Winner of **JPMC Code For Good 2024 Hackathon**, Finalist at **Intel OneAPI Hackathon 2023**.
- CodeChef:** Solved 150+ questions, 3* (1600+ Rating).
- Leetcode:** Solved 500+ questions (1825 Max Rating).