MAYANK AGGARWAL

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EDUCATION

M.B.M. University *Jodhpur, Rajasthan*

B.E. in Computer Science *Aug 2023 - June 2027*

CGPA 8.017

Course Highlights Data Structures, Design and Analysis of Algorithms, Computer Networks, Software Engineering, Computer Organization & Architecture etc.

EXPERIENCE

Havells (Head Office) *Noida, Uttar Pradesh*

Software Engineer (Internship) *June 2025 - July 2025*

- Developed and deployed an **Automated Number Plate Recognition (ANPR) system** using **Python & OpenCV**, processing **200+ trucks/day** across 5+ entry points with **95%+ accuracy**.
- Developed and deployed a **24/7 operational system** integrated with Havells' official **SAP database** for centralized, real-time data logging.
- Implemented temporary images storage for number plate captures, retaining data for up to 5 days to ensure traceability and auditability.

Proton Hub *Hanumangarh, Rajasthan*

Web Developer (Internship) *Nov 2024 – Jan 2025*

- Designed and built a responsive website using HTML, CSS, JavaScript, and React, improving user experience and strengthening the center's online presence.
- Built and optimized a **React.js chatbot** with **DialogFlow API integration**, handling **300+ daily queries** with **40% faster response times**, while implementing **Jest unit tests** for reliability.

Coding Ninjas *Gurugram, Haryana*

Teaching Assistant (Internship) *June 2024 - Sep 2024*

- Aided a diverse group of **200+ students**, addressing and resolving over 400 doubts.
- Facilitated interactive doubt resolution sessions, delivering timely and articulate responses to student inquiries regarding Data Structures, resulting in a commendable rating of **4.9 out of 5.0.**

Embedded Systems and Robotics Club (ESRC) *Jodhpur, Rajasthan*

Robotics Trainee *Dec 2023 – Jan 2024*

- Completed hands-on training in Embedded Systems and **Microcontroller Programming**, gaining practical experience with Arduino, IR sensory, and motor drivers.
- Engineered 15+ embedded systems projects including an RC car and a line follower robot, applying real-time control techniques.

PROJECTS

EIC MBMU (Deployment) *Jan 2025 - Feb 2025*

- Led full-stack development of a **high-traffic university portal** using **React (Vite), Node.js, and MySQL**, implementing **JWT authentication** and achieving **1.2s avg load time** via lazy loading.
- Created intuitive user interfaces, ensuring seamless navigation and enhanced user experience across desktop and mobile platforms.

SignSpeak (Source Code) *Aug 2024 - Oct 2024*

- Trained a **CNN model (TensorFlow/Keras)** with **OpenCV** for real-time sign language translation, deployed via **Flask backend** and React frontend, achieving **89% validation accuracy.**
- Used Flask and React.js to connect the model with a user-friendly interface for gesture-based text display.

TECHNICAL SKILLS

- Languages: C++ (Proficient), Python (Advanced), JavaScript/ES6, MySQL, Java
- Frameworks & Libraries: React.js, Node.js, Express.js, REST APIs, Tailwind CSS, IndexedDB, TensorFlow, scikit-learn, Flask, OpenCV
- Tools & Platforms: Git, Linux/Unix, Docker, Jest (Unit Testing), Agile/Scrum

ACHIEVEMENTS

- **Lead – Google Developer Groups (GDG) Jodhpur:** Leading the core team, organizing developer programs, mentoring peers across domains including Web, Mobile, and Cloud, and driving impactful projects and community initiatives.
- **Event Coordinator – TechKriti 2025, MBM University:** Coordinated the annual technical fest with 2000+ attendees, managing a 50+ member team and overseeing event content and promotional material.