

Ayush Verma

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EDUCATION

SRM Institute of Science & Technology Chennai, TN, India
Bachelor of Technology in Electronics & Communication (**BTech in ECE**); Percentage: 73.66% 2016-2020

SKILLS SUMMARY

- **Languages:** Python, JavaScript, HTML, CSS
- **Libraries/frameworks:** Node.js, Express, Next.js, React, Material UI, Bootstrap, Tailwind CSS
- **Tools:** WebSockets, WebRTC, NPM, Vite, Git(version control), Unit Testing, Vercel
- **Soft Skills:** Excellent communication, Troubleshooting, Problem-Solving, Team Management, Decision Making

WORK EXPERIENCE

Full Stack Developer | Take2 Technologies (September 2023 - Present)

Recon proctoring suite September 2023 - Present

- Built a free & open source Python and Opencv based **face detection & recognition API** from scratch for proctoring in **Moodle** Test environment(Learning Management System).
- Additionally, a Node.js and WebRTC based **live proctoring admin panel** & RecordRTC based **recording** for enhanced vigilance.
- Designed and developed a role-based React.js and Material-UI **dashboard** for users and administrators to monitor plan purchases, API usage, and remaining API calls, ensuring seamless tracking and management.
- Ended the dependencies on Amazon 'Rekognition' API for facial analysis bringing the costs down very significantly.
- Adhered to agile methodologies and SDLC practices with proper unit, integration and performance testing.
- Ensured code quality by doing extensive debugging & in depth peer code review resulting in API **performance with 93% plus accuracy in face detection** and **95% plus accuracy in face matching**.
- Created proper documentation of the tools to help clients understand and start using it easily.
- Collaborated with multiple stakeholders to understand the requirement, ensuring alignment with business objectives, fostering effective teamwork and project success with decided timelines.

Brainflow App (On play & app store) July 2024 - October 2024

- Led a team of developers to build a comprehensive app for a US-based client designed to help high school students optimize their cognitive function and reduce test anxiety by providing personalized study schedules, tracking self-care activities, and offering tools for mental wellness.
- By integrating various features such as calendar scheduling, tailored study plans, activities tracking, and music for relaxation and motivation, BrainFlow aims to improve students' test performance and overall well-being.
- A reasonable amount of data was collected and processed to give customized feedback to see comparative progress of the students.

Orderline AI June 2024 - July 2024

- **Leveraged generative AI models**, including **ChatGPT** and **BlackboxAI**, to design and implement an automated pipeline for generating a **50,000+ question bank** tailored to building codes and standards in Canada.
- Developed an **AI-based content generation framework** to ensure the accuracy, relevance, and contextual integrity of training material for building-industry professionals.
- **Optimized AI model workflows** for high-efficiency text generation, reducing manual intervention by 90% and achieving scalability for diverse training needs.

Health monitor band (AIS Glass Project) May 2024 - June 2024

- A **proof of concept** smart fit band solution to monitor workers' health, safety and anomalies in a demanding industrial environment for 20000+ workers in Asia's 3rd-largest glass factory in Bhilwara-Chittaurgarh, Rajasthan.
- Implemented Google OAuth 2.0 and Google Fit data sync for secure authentication and **seamless health data synchronization**.
- Optimized backend performance to handle high-volume data streams, enabling efficient processing and actionable health insights.

PROJECTS

Employee management System | Freelancing Project July 2023 - August 2023

- Created a comprehensive system for efficient management & handling of profile, leaves, salary, projects, etc.
- Technologies used were React, Vite, SmtpJs, Vercel. The app was totally responsive on any screen size.
- Implemented features like social logins, authentication, authorization, session management, state management, payment gateway integration, wallet integration, etc.