Harsh Patel

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EDUCATION

Bachelor of Technology in Computer Science and Engineering, *Vellore Institute of Technology - Vellore* — 2021 – 2025, Vellore, India
- Specialization in Block-Chain Technology
- CGPA- 8.88

Higher Secondary Certificate (HSC), *Nutan Vidyamandir Secondary And Higher Secondary Junior College* — 2019 – 2021, Nashik, India
- Scored 85.33%

PROFESSIONAL EXPERIENCE

Web Development Intern- Crompton Greaves Power & Industrial Solutions Ltd. — 08/2023 – 09/2023, Nashik, India
- Enhanced Field Remote Terminal Units (FRTUs) by developing a web interface for remote relay control, reducing manual intervention by 30%.
- Designed real-time status monitoring features, leading to a 20% increase in operational efficiency.
- Developed web solutions using HTML, CSS, and JavaScript, improving user experience and interface responsiveness by 40%.
- Conducted testing and troubleshooting, decreasing system downtime by 25%.

Project Intern- Defence Research and Development Organization (DRDO), R&DE(ENGRS) — 09/2023 – 12/2023, Pune, India
- Conducted research on Audio Perception & Analysis for Robotic Applications using MATLAB, leading to a 15% improvement in algorithm accuracy.
- Implemented GCC-PHAT and MVDR algorithms to enhance audio signal processing, increasing signal clarity by 7%.
- Investigated the impact of environmental noise on Direction of Arrival (DOA) estimations, identifying noise factors that reduced accuracy by 10%.
- Assessed MVDR algorithm under varying Signal-to-Noise Ratios (SNRs), delivering 10+ reports that improved performance by 25% and reduced errors by 15%.

PROJECTS

Cryptpay - Cryptocurrency Exchange Platform ✎
- Led Cryptpay's development, enabling **50+ test transactions** and boosting wallet integration success by 40%.
- Implemented a **ReactJS-based UI** to support wallet connections and trade execution, improving user interaction speed by 30%.
- Integrated Metamask for secure login and managed **50+ transactions** with 0 reported authentication failures.
- Leveraged **Vercel for deployment**, improving performance and accessibility by reducing Down time by 50%.
- Technologies Used: **ReactJS, Tailwind CSS, NodeJS, Metamask, Ethereum blockchain.**

AI-Based DND Messages Alert Classification System
- Built an AI model using TF-IDF and LSTM, **achieving 88%+ accuracy** in classifying urgent vs non-urgent messages.
- Integrated **voice-to-text,** enabling real-time audio classification with under 1-second latency.
- Created a Flutter app for cross-platform use with real-time alerts.
- Achieved over 85% accuracy with low-latency performance.

Personal Portfolio Website ✎
- Built a portfolio website utilizing **HTML, CSS, and JavaScript**, enhancing user interaction by 25% overall.
- Designed a responsive layout for **web and mobile**, enhancing UX with modern UI, light/dark mode toggle, and smooth animations—boosting engagement by 30%.
- Technologies**: HTML, CSS, JavaScript.**

SKILLS

Languages — Java, Cpp, C, Python, SQL,R programming, NoSQL

Softwares — Docker, Multisim, Modelsim, MATLAB, Cisco Packet Tracer, Wireshark, OrCAD

Web Technologies — HTML, CSS, JavaScript, AngularJS, ReactJS, NodeJS, Tailwind CSS

Soft Skills — Effective Communication, Management, Leadership, Teamwork

Frameworks & Tools — Spring, Hibernate, Git, GitHub, Eclipse, Postman,

CERTIFICATES

- AWS Certified Cloud Practitioner ✎
- PayTech Pioneer Course ✎
- Java Development on Oracle Cloud (Completion)
- PayTech-Level 1 ✎
- Smart India Hackathon: Internal Finalist ✎
- Paytech-Level 2 ✎

EXTRACURRICULAR ACTIVITIES

Chairperson, *Technology And Gaming (TAG) Club* ✎ — 2024 – 2025

Co-Secretary, *Technology And Gaming (TAG) Club* — 2023 – 2024
- Served as Event Coordinator for VIT Gamers League in Rivera'23 and co-organized Game Development Hackathons during Rivera'23 and Gravitas'23.

Food Donation Volunteer, *RobinHood Army* — 09/2023 – present

National Level Netball Player, *6th One Nation Netball Cup* ✎ — 04/2018 – 05/2018