HARSH CHAUHAN

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Education

Vellore Institute of Technology, Bhopal	*2023 – 2027*
B.Tech (CSE)	**CGPA: 8.63**
NSK High School	*2022*
Higher Secondary	**Percentage: 81.2%**
NSK High School	*2021*
Secondary	**Percentage: 85.6%**

Achievements

- **Achieved AIR 175** in CodeKaze, a national-level coding competition by DTU, with over 10,000 participants
- **Top 5% (Elite + Silver Medal)** in **NPTEL Cloud Computing** course conducted by IIT, Kharagpur [May, 2025]
- Received certificate from **Google** for completing the **Google Cloud & Generative AI** workshop.
- Completed the **Accenture Software Engineering virtual experience**, gaining hands-on skills in coding, debugging, and Agile methodologies[Certification]

Coding Profiles

- Solved over 100 DSA problems across multiple coding platforms.
- Profiles: —Leetcode—GeeksforGeeks, and more.

Technical Skills

- **Programming Languages:** Java, C++, Python.
- **Frontend Development:** HTML, CSS, JavaScript, ReactJS, NextJS.
- **Backend Development:** NodeJS, ExpressJS.
- **Databases:** MongoDB, Firebase, SQL.
- **DevOps:** Kubernetes, Docker, Trivy.
- **Tools:** GitHub, Postman, REST API.

Projects

Musify *Python, OpenCV, Flask, TensorFlow*

- Developed a real-time emotion-based music recommender using facial expression recognition.
- Trained a CNN on **FER-2013** to classify 7 emotions and map them to playlists via **Spotify API**.
- Built a modern **Neumorphic UI** with Flask/HTML/CSS; optimized for inference speed and user interaction.
- Enabled personalized mood-based playlists with 90%+ accuracy, increasing user engagement and interaction.

Temperature Monitoring System *Raspberry Pi Pico, C, I^2C, LCD1602*

- Built a real-time temperature monitor with **Raspberry Pi Pico** and digital sensor (DHT11/DHT22).
- Displayed readings on a 16×2 LCD via I^2C with 95–98% accuracy and threshold alerts.
- Wrote modular C code optimized for memory, power, and real-time response in embedded environments.
- Simulated for smart-home scenarios, enabling faster temperature response and safety trigger integration.

Hostel Query Management System *React.js, Node.js, Express.js, Firebase*

- Developed a full-stack web app to digitize hostel queries (room allocation, mess food, maintenance).
- Built a responsive UI with **React.js** using reusable components, hooks, and routing.
- Designed scalable REST APIs using **Node.js/Express** with Firebase Auth & Firestore for real-time storage.
- Reduced administrative overhead and response time by 60% through complete digitization of query workflows.