Harsh Daftari

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Career Objective

As an IT student skilled in C++, C, and Java, with expertise in web development and data structures, I seek to apply my technical knowledge to build efficient solutions. I aim to work in dynamic environments that foster learning, allowing me to contribute to impactful projects and grow as a developer.

Education

B.E., Information Technology	BMS College of Engineering CGPA: 9.25/10	2022 – 2026
Senior Secondary (XII), CBSE	Swami Vivekananda VidyaMandir Percentage: 91.80%	2022

Skills

- **Languages:** C, C++, Java, Python, JavaScript
- **Web Technologies:** ReactJS, Node.js, Express.js, Flask, FastAPI
- **Databases:** PostgreSQL, MongoDB
- **Cloud Platforms:** AWS, Azure
- **Others:** Pandas, Git, Machine Learning, Cloud Deployment

Projects

VibeSense – Real-Time Emotion Detection Using Deep Learning
Website: https://final-frontend-chi.vercel.app
Built a real-time emotion recognition system using a custom Indian accent dataset. Collected over 1,000 unique voice samples and augmented them to 5,000+ using audio processing techniques. The model achieved high classification accuracy and outperformed existing solutions on real-world Indian speech in both accuracy and latency.

Anti-Cheating Quiz App
Website: https://quizzer.site
Web-based quiz platform that prevents tab switching during tests to ensure fair assessment. Includes dashboards for students and teachers. established connection pooling for stability , timer based tests , question shuffling.

Vikasya – Senior Support Platform
Repository: frontend- https://github.com/harsh977/sahayak-frontend-v1
Repository: backend- https://github.com/include-yash/sahayak-be
Built to support elderly individuals with accessible service listings, community assistance features, and simple UI/UX tailored for ease of use. Designed during a civic-tech initiative to enhance social good.

Publications

- **Dataset Publication:** Daftari, H. (2025). *Indian English Speech Emotion Dataset.* Mendeley Data, V1. https://doi.org/10.17632/mtk28hgc6x.1
  A comprehensive dataset of 1,000 original audio samples from native Indian English speakers across four emotions (Happy, Sad, Angry, Neutral), expanded to 3,000 samples through data augmentation. Addresses the critical gap in Indian English speech emotion recognition research, achieving 96% accuracy with LSTM models.
- **Under Review:** *"AIRE: Adaptive Inverse RMSE Ensembling for Second-hand Car Price Prediction"*, International Journal of Computing and Digital Systems.

Achievements & Extracurricular Activities

- 1st Place @ AI Verse National Level Hackathon (72 hr)
- 1st Place @ Impact AI 2.0 (24hr Hackathon)
- 1st Place @ Rotech Crack the Code Hackathon
- SAP Hackfest 2025 Regional Round winner (currently competing in State Round)
- 2nd Place @ BMSCE PhaseShift Codeathon
- 3 Star on CodeChef (Peak Rating: 1630)
- 300+ DSA Problems Solved in C++ (CodeChef, LeetCode, GFG)
- Experience with AWS (EC2/S3), Git, and Cloud Deployment

- Class Representative—facilitated communication between students and faculty
- Event organizer for major college events—demonstrated leadership and management
- **Junior Coordinator – Campaigning, Utsav Fest** – Promoted and managed campaign outreach for the college's flagship cultural event