HARSHIT SONI

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Education

IIITV - ICD	**November 2022 – May 2026**
Bachelor of Technology in Computer Science	*Diu,India*

Relevant Coursework

- Data Structures
- Software Engineering
- Algorithms Analysis
- Database Management
- System Software
- Computer Architecture
- OOPS
- Computer programming
- Cryptography
- Computer Networks
- Artificial Intelligence
- Operating System

Projects

Personalized Speech Synthesis 🔗 | *Tacotron2, HiFi-GAN, Gradio*   **December 2024**

- **Implemented** a text-to-speech model using **Tacotron2** and **HiFi-GAN**, achieving **95% intelligibility** on personal voice data.
- **Built** a **Gradio-based** interface on **Google Colab**, processing **200+ text inputs** per session with real-time conversion.
- **Enhanced** training and inference, **reducing latency by 25%** and improving speech clarity.

Fuzzy Intensification of Images 🔗 | *Matlab, Image Processing*   **October 2024**

- Designed an image enhancement algorithm that improved image clarity by 40% on low-contrast datasets while preserving brightness levels.
- Processed 500+ images using contrast enhancement, improving visual quality and reducing noise by 30%.

STAVYA (Annual Cultural Fest) Website 🔗 | *React*   **December 2024**

- Developed a dynamic and responsive website for STAVYA, showcasing fest details, committees, and events.
- Designed an engaging UI to highlight event schedules, committees, and key fest attractions.

Auto-Entry (Smart Gate Access System) 🔗 | *MERN Stack*   **November 2023**

- **Designed** an automated entry-exit system, **reducing manual logging time by 80%**.
- **Built** a **React-based** frontend and integrated **MongoDB**, handling **10,000+ log entries** with zero data loss.
- **Implemented** role-based authentication, restricting access and enhancing **security compliance by 30%**.

Technical Skills

Languages: **C, C++, Python, JavaScript**, HTML, CSS
Databases: **SQL, MongoDB**
Developer Tools: VS Code, **Google Cloud Platform**, Jupyter Notebook, Docker, **Git**
Technologies/Frameworks: **React, Node.js, Express**, Linux, Tailwind CSS, **PyTorch, Reinforcement Learning, Deep Learning**

Experience

Technical Committee, IIITV-ICD	**July 2024 – Present**
Member	*Diu, India*

- Contributed to **organizing and managing 5+ technical events**, workshops, and hackathons, enhancing coding culture on campus.
- **Collaborated** with technical committees of 3+ IIITs to exchange ideas, co-host events, and strengthen inter-institutional technical engagement.

Essence Literary Club IIITV-ICD	**December 2023 – Present**
Secretary	*Diu, India*

- **Organized 10+ literary events**, engaging **250+ participants**, and expanded the club's reach through strategic planning and execution.
- **Revamped** club activities with innovative themes, interactive formats, and collaborations, **increasing participation by 30%** and enriching the campus literary culture.

Achievements & Certifications

- Achieved a **4-star rating on CodeChef** by consistently solving algorithmic challenges and competing in programming contests. Demonstrated expertise in data structures and algorithm analysis. Profile
- Secured **3rd position** in **Code Voyage 2024**, an inter-IIT coding contest hosted by IIITV-ICD, competing against top coders from multiple IIITs. Certificate
- Completed **NVIDIA's comprehensive training** specializing in **fundamentals of deep learning**. Certificate