Hridyansh Sharma

Software Developer • Bhilwara, Rajasthan
+91 9024266007 sharmahridyansh3@gmail.com LinkedIn/in/hridyansh GitHub/ridh1234

Education

Indian Institute of Information Technology Vadodara - Diu Campus **2022 – Present**
B.Tech in Computer Science and Engineering *Diu, India*

Technical Skills

Languages: Python (Advanced), JavaScript (Advanced), C++ (Proficient), Java (Proficient)
Web Development: React.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS, RESTful APIs
Machine Learning: TensorFlow, PyTorch, Natural Language Processing, Speech Synthesis
Developer Tools: Git, GitHub, VS Code, Postman, MongoDB, MySQL, AWS, Google Cloud Platform

Relevant Coursework

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

Projects

Neural Text-to-Speech System | *PyTorch, Tacotron2, HiFi-GAN, Python, CUDA* **December 2024**

∗ Developed an end-to-end speech synthesis system combining Tacotron2 for mel-spectrogram prediction and HiFi-GAN for waveform generation, achieving a 30% improvement in naturalness scores based on Mean Opinion Score (MOS) evaluations.
∗ Implemented CUDA-accelerated parallel processing techniques and batch inference optimization, reducing model inference time by 45% while maintaining high-quality audio output.
∗ Designed and trained a custom pronunciation dictionary to handle edge cases and proper nouns, improving pronunciation accuracy by 25% for challenging words and names.

Document Structure Analysis | *Image Processing, Deep Learning , Detectron2* **October 2024**

∗ Developed a system for analyzing document structures using image processing and deep learning techniques.
∗ Implemented text and layout extraction to identify and segment paragraphs, tables, images, and headings.
∗ Integrated Optical Character Recognition (OCR) for converting extracted text regions into machine-readable text.
∗ Utilized deep learning models like Detectron2 and Mask R-CNN for detecting document structures with high accuracy.
∗ Applied preprocessing techniques to enhance image quality and improve text readability for better extraction results.

AI Hiring Assistant Chatbot | *Python, Streamlit, Google Gemini API* **March 2025**

∗ Developed an AI-powered chatbot to automate initial candidate screening for technical positions.
∗ Integrated **Google Gemini API** to generate 3-5 interview questions based on the candidate's tech stack.
∗ Designed an interactive and user-friendly UI using **Streamlit** for smooth candidate interaction.
∗ Implemented context-aware conversation handling and fallback mechanisms for better response accuracy.
∗ Deployed locally and prepared for cloud deployment using **Streamlit Cloud** or **Hugging Face Spaces**.

Technical Achievements

- Ranked in top 4.22% globally on LeetCode (Rating: **1911**) with 300+ problems solved
- Achieved 3-Star rating on CodeChef (Rating: **1795**), consistently solving complex algorithmic problems
- Selected in TCS CodeVita Round 2, competing against 200,000+ developers globally

Professional Development

- Google Cloud Digital Leader Certification - Completed extensive training in cloud architecture and deployment
- Advanced C++ Programming and Data Structures Specialization - Udemy