

HRIDYANSH SHARMA

Software Developer • Bhilwara, Rajasthan

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Education

Indian Institute of Information Technology Vadodara - Diu Campus

2022 – Present

B.Tech in Computer Science and Engineering

Diu, India

Experience

Farnodes

May 2025 – July 2025

AI Intern

Remote

- Led development of **AgentXN**, an **offline agentic AI system** supporting multi-intent handling, memory-aware dialogue, and task automation via modular MCP servers.
- Integrated key modules like **Smart Calendar**, **To-Do Tracker**, **Reminders**, and **Local File Assistant** with structured JSON-based intent parsing and FastAPI backend.
- Engineered multi-tiered **memory system** (short-term, working, long-term) and custom **RAG pipeline** using LangChain + ChromaDB for personalized context retrieval.
- Fine-tuned **Gemma-1B** with prompt engineering for concurrent task threads; built responsive HTML/CSS/JS frontend for chat, memory, and agent module control.

Projects

AgentXN: Offline Personal Task Assistant | Python, FastAPI, LangChain, ChromaDB | 🐙 [Code](#)

July 2025

- Built an offline AI assistant powered by a fine-tuned 1B LLM, automating 9+ functional modules (Calendar, Tasks, Habits) with **92% accuracy** on multi-step commands.
- Integrated **LangChain**-based RAG pipeline and ChromaDB for contextual retrieval, reducing hallucination by **40%**.

Sentiant AI: Full-Stack Sentiment Intelligence Platform | React, FastAPI, Mistral, BERT | 🌐 [Live Link](#)

May 2025

- Built full-stack app with user auth, YouTube/Reddit API integration, and dynamic LLM-driven sentiment report generation.
- Used BERT for classification and Mistral for summarization, enabling contextual multi-source insights with natural language outputs.

Neural Text-to-Speech System | PyTorch, CUDA, Tacotron2, HiFi-GAN | 🌐 [Live Link](#)

March 2025

- Developed Tacotron2 + HiFi-GAN pipeline achieving **4.2/5 MOS**; deployed interactive demo on HuggingFace Spaces.
- Optimized inference with CUDA-based batching and augmentation, reducing latency by **45%**.

Document Layout Understanding System | Detectron2, OpenCV, spaCy | 🐙 [Code](#)

October 2024

- Achieved **82.6% mAP** on 15K+ image dataset using Mask R-CNN with aggressive data augmentation.
- Built OCR+NLP pipeline with Tesseract and spaCy, reaching **96.5% text accuracy** and **0.89 F1-score** for structural tagging.

Technical Skills

- Programming Languages:** Python (NumPy, Pandas), JavaScript, C++, Java
- Frameworks:** PyTorch, TensorFlow, Scikit-learn
- Tools & Platforms:** Git, GitHub, VS Code, Google Colab, Jupyter, MySQL, MongoDB
- Relevant Coursework:** Machine Learning, Artificial Intelligence, Data Structures, DBMS, OOPS, Computer Networks, Operating System, Software Engineering

Technical Achievements

- Earned **2nd place** in Code-Voyage, competing against **300+ participants** from multiple IIITs
- Achieved **top percentile ranking on LeetCode** with **rating of 1900+** and **300+ problems solved**, strengthening **algorithmic thinking**, **efficient coding practices**, and **software optimization** [[Profile Link](#)]
- Attained **3-Star rating on CodeChef** (**Rating: 1795**) through competitive programming contests and solving **100+ DSA problems** [[Profile Link](#)]
- Earned **NVIDIA Deep Learning Institute Certification** in neural network fundamentals and implementation [[Certificate](#)]