Harsha Vardhanu Parnandi

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 Portfolio

Education

Anurag University	**September 2022 - Present**
B.Tech, Artificial Intelligence and Machine Learning	CGPA: 8.05	Hyderabad,Telangana
Telangana State Residential Junior College	**June 2020 - May 2022**
TS Board of Intermediate Education, MPC	Percentage: 96.4	Jagital,Telangana

Experience

AI Developer Intern, VISWAM.AI (Summer of AI 2025)   **May 2025 – Present**

- Selected among **3000+ applicants** for the prestigious Summer of AI 2025 program to build impactful AI solutions under industry mentorship.
- Built and deployed 2 AI solutions using **Python, DevOps, GitHub**, and agile collaboration tools in a hybrid setting.
- Procured local datasets and fine-tuned LLMs, improving performance on real-world use cases by reducing token usage by **35%**.

Projects

Sequel Speak — Schema-aware Text-to-SQL | Founder & Lead Developer   GitHub ↗   **Oct 2025**

- Developed an end-to-end schema-aware text-to-SQL system that converts natural-language queries into validated, executable SQL and returns structured, user-friendly results with suggested visualizations.
- Integrated LLM orchestration (OpenRouter/OpenAI) with semantic schema retrieval using pgvector and embedding pipelines to reliably identify relevant tables/columns and reduce unwanted queries.
- Built robust validation and execution layers (SQL validators, safe executors, SQLAlchemy) plus schema connectors and an indexing pipeline to handle dynamic schemas and auto-correct common errors.
- Deployed a production-ready stack (FastAPI, Docker, PostgreSQL + pgvector) with GitHub Actions CI, secure execution sandboxing, logging, tests, and role-based access.

Applicant Tracking System | Python, Streamlit, Docker, Generative AI, PDF processing   Github ↗   **Dec 2024**

- Developed an AI-powered ATS Resume Expert to optimize resumes using Generative AI and NLP.
- Built an ATS Analysis Engine, increasing resume-job match **accuracy by 90% using Machine Learning**.
- Designed a Resume Review System with **OpenAI API**, providing insights that **improved user resumes by 70%** based on recruiter feedback.
- Integrated a **Cold Email Generator**, automating personalized job applications with an **80% engagement rate**.

Relevant Coursework

- Natural Language Processing (NLP)
- Applied Statistics for Machine Learning
- Data Analysis and Visualization (Power BI)
- Version Control Systems (Git)
- Generative AI
- Deep Learning(Transformers)

Technical Skills

LLMs & AI Frameworks: OpenAI API (GPT-4), Gemini 1.5 Flash, Hugging Face Transformers, BERT, MLflow

Prompt Engineering & NLP: Text-to-SQL agents, semantic search (vector embeddings), summarization, zero-shot classification

AI Integration Tools: Streamlit, n8n Automation, Postman (for testing LLM APIs), Power BI (AI-powered visuals)

Programming & Scripting: Python, SQL, Java, C

Databases & Cloud: PostgreSQL, Supabase, MySQL, DigitalOcean (App Platform & Droplets), Heroku, AWS (basic)

DevOps & Deployment: Docker, GitHub Actions (CI/CD), Version Control with Git

Productivity & Collaboration: Notion, Microsoft Loop, Microsoft Teams

Certifications / Achievements   Google Drive ↗

ServiceNow Certified System Administrator (CSA)   **June 2025**

- Configured ServiceNow instances, and managed incident reports efficiently, **reducing resolution time by 35%**.

ServiceNow Certified Application Developer (CAD)   **June 2025**

- Designed and launched custom applications on the ServiceNow platform, enhancing workflow **automation by 50%**.

Generative AI with Langchain and Huggingface   **March 2025**

- Built advanced **Retrieval-Augmented Generation (RAG)** pipelines, fine-tuned pre-trained models, and deployed AI applications on the cloud.