

N TULASI REDDY

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PROFESSIONAL SUMMARY

Visionary AI enthusiast with experience in building full-stack LLM-based systems, specializing in Generative AI, RAG architecture, and real-world NLP solutions. Skilled in deploying scalable AI models using Python, optimizing embeddings, and integrating semantic search in production-grade applications. Passionate about solving complex AI challenges and innovating enterprise solutions through continuous learning and experimentation.

KEY COMPETENCIES

Generative AI, RAG Architecture, LLMs, Sentence-BERT, Prompt Engineering, Semantic Search, Python, Deep Learning, AI Strategy, Technical Writing, Cloud Deployment, Streamlit, Supabase, NLP Pipelines, Data Structures, REST APIs, Team Collaboration

EDUCATION

Woxsen University <i>B.Tech in Artificial Intelligence and Machine Learning</i>	Hyderabad, Telangana <i>Aug 2022 – May 2026</i>
Narayana Junior College <i>Higher Secondary Certificate (TSBIE)</i>	Hyderabad, Telangana <i>Jul 2020 – Mar 2022</i>

INTERNSHIPS AND EXPERIENCE

Machine Learning Intern <i>Ransh Innovations Pvt. Ltd</i>	Feb 2025 – July 2025 <i>Remote</i>
<ul style="list-style-type: none">– Built an LLM-powered news aggregation engine using embeddings and prompt-tuned subtopic detection.– Integrated KeyBERT and Sentence-BERT for content clustering and semantic similarity search.– Developed Supabase-backed backend for scalable news ingestion and querying in real-time.– Visualized regional content trends using heatmaps and dashboards, optimizing user insight delivery.– Wrote technical documentation outlining AI architecture, data flows, and deployment strategy.	
Space Research Intern <i>Agnirva Space</i>	Dec 2024 – Jan 2025 <i>Remote</i>
<ul style="list-style-type: none">– Conducted technical research on satellite telemetry and onboard decision algorithms.– Certificate Link	

ACADEMIC PERSONAL PROJECTS

Movie Recommendation System	<i>May 2025 – July 2025</i>
<ul style="list-style-type: none">– Technologies: Python, Streamlit, Sentence-BERT, Pandas, TMDb API– Built a content-based movie recommender using Sentence-BERT (all-MiniLM-L6-v2) for semantic similarity of plot summaries.– Developed an interactive UI using Streamlit with filters for genre, language, and release year.– Processed and cleaned a custom 10K+ movie dataset from TMDb, integrating poster images, cast, and metadata.– Enhanced recommendation relevance by leveraging NLP embeddings instead of traditional keyword matching.	
Agri-Drone for Disease Detection and Pesticide Spraying	
<ul style="list-style-type: none">– Technologies: Python, ArduPilot, QGroundControl, Obstacle Detection, Embedded Systems– Developed a drone system for automated pesticide spraying with image-based crop disease detection.– Integrated GPS and ultrasonic sensors for safe and autonomous navigation in farms.	
Heart Disease Prediction Using Machine Learning	
<ul style="list-style-type: none">– Technologies: Python, Scikit-learn, TensorFlow, Keras– Built logistic regression and random forest models to predict heart disease from clinical data.– Performed EDA, preprocessing, and model evaluation using ROC-AUC and precision-recall analysis.	

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL, JavaScript
- **AI/ML Frameworks:** TensorFlow, Keras, Scikit-learn, Sentence-BERT, KeyBERT
- **Web Technologies:** Streamlit, Flask, HTML, CSS, JavaScript
- **Databases:** Supabase, SQLite, MySQL
- **Tools:** Git, Postman, Google Colab, VSCode
- **Concepts:** Generative AI, LLMs, RAG Architecture, NLP Pipelines, Prompt Engineering, Embedding Search

CERTIFICATIONS

Coursera: Introduction to Deep Learning with Keras 

Coursera: Introduction to Artificial Intelligence (AI) 

Coursera: Core Java 