

YEMULA KARTHIKEYA

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Professional Summary

Recent B.Tech graduate in Artificial Intelligence and Machine Learning with hands-on internship experience in data pipeline automation and AI-powered developer tools. Built academic projects in NLP and recommendation systems using PyTorch, Scikit-learn, FastAPI, and Docker. Strong foundation in Python, SQL, and supervised learning with practical exposure to model training, evaluation, and REST API development.

Education

St. Martins Engineering College, Secunderabad	2022 – 2026
<i>B.Tech in Artificial Intelligence and Machine Learning</i>	<i>CGPA: 8.15</i>
MJPTBCWRJC, Nizamabad	2020 – 2022
<i>Board of Intermediate Education</i>	<i>Percentage: 91.8</i>
Sri Vijaya Sai High School, Bodhan	2019 – 2020
<i>Secondary School Certificate</i>	<i>CGPA: 10</i>

Technical Skills

- **Languages & Databases:** Python, SQL
- **ML & AI:** PyTorch, Scikit-learn, Pandas, NumPy, Feature Engineering, NLP, Graph Embeddings, Recommendation Systems, TF-IDF, Supervised Learning, Model Evaluation
- **Backend & APIs:** FastAPI, Django, REST API Design
- **MLOps & Tools:** Docker, Git, GitHub Actions, Jupyter Notebook, Streamlit, Power BI
- **Cloud & Deployment:** Vercel, Hugging Face Spaces, Render

Work Experience

AI Intern ZenithIndia	May 2025 – July 2025
– Automated REST API data ingestion pipeline processing 10,000+ seller records daily using Python and Pandas, eliminating ~6 hours/day of manual data extraction. – Designed Power BI dashboards tracking 10+ KPIs adopted by executive leadership for strategic decision-making. – Built an AI-powered code comment generator using Llama-2-7B (4-bit quantized, Hugging Face) and Streamlit, enabling automated Python docstring generation for developer documentation.	

Projects

Student Performance Analytics Platform	Apr 2025
– Built full-stack analytics platform (Django REST + Next.js) with auto-retraining Scikit-learn ML pipelines triggered on data drift, ensuring grade prediction stability across academic terms. – Designed normalized PostgreSQL schemas for student-course-grade relationships; containerized with Docker and deployed via CI/CD workflows for automated testing and release. – Tech: Python, Django, TypeScript, SQLite, Scikit-learn, Docker GitHub: student-performance-analysis	
SonicStream – Music Recommendation System	Feb 2026
– Developed music streaming platform with PyTorch-based Heterogeneous Neural Network engine modeling user-song-artist graph embeddings for personalized real-time recommendations. – Built FastAPI REST endpoints for model serving and management; containerized with Docker and deployed on Hugging Face Spaces + Vercel for public access. – Tech: Python, PyTorch, FastAPI, Docker, Google Firestore GitHub: Music-Recommendation-System	

Leadership & Achievements

Vice President Street Cause	2024 – 2025
– Spearheaded fundraising initiatives securing INR 1.5L+, funding social impact projects for 1,000+ beneficiaries. – Managed cross-functional teams to execute 15+ large-scale events, optimizing workflows and increasing efficiency by 20%.	

Certifications

- **Python for Data Science** — IBM / Cognitive Class
- **Machine Learning Foundation** — Infosys Springboard