

YEMULA KARTHIKEYA

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PROFESSIONAL SUMMARY

Aspiring Machine Learning Engineer with hands-on experience in recommendation systems, neural networks, NLP, and computer vision. Strong in Python, PyTorch, model training, evaluation, and REST API integration. Actively building real-time ML systems and seeking Machine Learning or AI internship roles.

EDUCATION

St. Martins Engineering College, Secunderabad

B.Tech in Artificial Intelligence and Machine Learning

Nov 2022 – June 2026

CGPA: 7.98

MJPTBCWREIS, Nizamabad

Board of Intermediate Education

2020 – 2022

Percentage: 91.8

Sri Vijaya Sai High School, Bodhan

Secondary School Certificate

2019 – 2020

CGPA: 10

PROJECTS

Online Music Recommendation System (Heterogeneous Neural Network)

Ongoing

- Designing an online music recommendation system using a Heterogeneous Neural Network (HNN) to model user-song-artist interactions.
- Implementing offline training pipelines and real-time recommendation logic using implicit feedback and interaction graphs.
- Designing REST APIs for personalized recommendation serving with dynamic model routing and versioned evaluation.
- Conducting offline evaluation of multiple model variants using ranking-based metrics to guide model selection.
- **Tech Stack:** Python, PyTorch, Graph-based Learning, REST APIs, Docker

Spam Detection in SMS

April 2025

- Built an NLP-based SMS classification system achieving 95% accuracy using TF-IDF and Naive Bayes on 5,500+ messages.
- Performed text preprocessing including tokenization, stop-word removal, and feature extraction to improve model robustness.
- Evaluated model performance using precision, recall, and F1-score to ensure reliable spam detection.
- **GitHub:** Spam Detection Project

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL
- **Machine Learning:** Recommendation Systems, Neural Networks, Supervised Learning, Model Training, Evaluation
- **Frameworks & Tools:** PyTorch, Scikit-learn, NumPy, Pandas, Streamlit, Django
- **Other:** REST APIs, Git, Docker

WORK EXPERIENCE

AI Intern — ZenithIndia

May 2025 – Present

– Seller Analytics Tools

- Processed 10K+ Flipkart seller records weekly via API; enriched with historical trends. Built Power BI dashboards for 10+ KPIs, reducing seller churn by 5%. Coordinated with cross-functional teams to improve feature adoption by 10%.
- **Code Comment Generator**
- Developed a web application that leverages Llama 2 (edumunozsala/llama-2-7b-int4-python-code-20k) from Hugging Face to generate inline comments for Python code.
- Built an interactive Streamlit interface for developers to input code and receive AI-generated contextual comments instantly. Improved documentation consistency and code readability with automated NLP-driven comment generation.

Vice President — Street Cause

July 2024 – May 2025

- Spearheaded fundraising campaigns and awareness drives, raising **INR 1.5L+** and serving over 1,000 underprivileged citizens.
- Led strategy and logistics for 15+ events, enhancing outreach, volunteer retention, and operational efficiency by 20%.
- Mentored 5 junior leaders in task delegation and budget tracking for a team of 50+ volunteers.

CERTIFICATIONS

- Python 101 for Data Science (IBM / Cognitive Class) — May 2025
- Accenture Data Analytics & Visualization Virtual Internship (Forage) — Sep 2024
- Tata Data Visualization: Empowering Business Insights (Forage) — Sep 2024