U.Krishna Koushik

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Summary

Data Science student (CGPA 8.3) specializing in building and deploying ML models and LLM-powered agentic systems. Proven ability to deliver full-stack data projects from concept to cloud deployment.

- Built an Agentic RAG assistant achieving **96.8% tool-selection accuracy** and delivering **sub-3s responses**.
- Developed a phishing URL detection system with **98.1% accuracy**, reducing **false positives by 85%**.
- Engineered a customer segmentation model that drove an **18% increase in CTR** and **12% reduction in CAC**.

Projects

NEXUS AI Command - Advanced Agentic RAG Research Assistant   *GitHub* ⬈ | *Live Demo* ⬈

- Architected a LangGraph-based multi-agent system for autonomous retrieval and synthesis from 1000+ token documents, achieving **96.8% source selection accuracy**.
- Engineered a dual deployment strategy (local Ollama + cloud Groq) to **reduce average response time by 80%** to under 3 seconds.
- Deployed full-stack application on Hugging Face Spaces, maintaining **99.2% uptime** while serving 500+ users; outperformed traditional chatbots by **40% in multi-source accuracy**.

Phishing Detection System Through Hybrid Machine Learning   *GitHub* ⬈ | *Case Study* ⬈

- Developed an LSD ensemble (Logistic Regression + SVC + Decision Tree) model trained on 11,000+ phishing/legitimate URLs with 32 URL features.
- Achieved **98.12% accuracy** and reduced false positives by **85%** compared to baseline models.
- Implemented real-time detection via Flask API and GUI, processing each URL in under 2 seconds.

Customer Segmentation Analysis for E-Commerce   *GitHub* ⬈ | *Live Demo* ⬈

- Analyzed 100,000+ transactions with 24 features; applied PCA (3 PCs, 82% variance) and K-Means (K=5, silhouette 0.47) to identify 5 actionable customer segments.
- Built an interactive web app for self-serve cluster exploration (RFM, spend, recency, frequency) with Matplotlib/Seaborn visuals.
- Results drove **CTR +18%**, **CAC -12%**, and email open rates **+15%** over 6 weeks.

Education

CMR Technical Campus — Hyderabad, India   *Nov 2022 – May 2026*
B.Tech, Computer Science (Specialization in Data Science), CGPA: 8.3

- **Relevant Coursework:** Operating Systems, Database Systems, Data Structures & Algorithms, Distributed Systems, Machine Learning.

Kendriya Vidyalaya Yenugonda, Mahabubnagar   *Apr 2020 – Jun 2022*
Intermediate Education (MPCs), Percentage: 75%

- **Relevant Coursework:** Mathematics, Physics, Chemistry, Computer Science.

Technical Skills

- **Programming:** Python, SQL, Java, C++
- **ML/DS:** Scikit-learn, Pandas, NumPy, PCA, K-Means, Matplotlib, Seaborn
- **AI/LLM:** LangChain, LangGraph, Groq API, RAG, Prompt Engineering, Vector DBs
- **Soft Skills:** Problem-Solving, Analytical Thinking, Project Management, Leadership
- **Databases:** MySQL, MongoDB, ChromaDB
- **Web/Deployment:** Django, Flask, HTML/CSS, Hugging Face, Streamlit
- **Tools:** Git/GitHub, Jupyter, Linux, Docker, GCP

Certifications

- **Google Cloud** - Certified Data Analyst (Certificate ID: yZs3zWzg)   *Expected 2025*
- **Google Cloud** - Certified Generative AI   *2024*
- **Accenture** - Data Analytics and Visualization Job Simulation   *2024*

Achievements

Rajya Puraskar Award — Bharat Scouts and Guides (BS&G), India
- Awarded the Rajya Puraskar, the second-highest award for scouts in India, in recognition of excellence in leadership, community service, and dedication.