

Rohan R

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PROFESSIONAL SUMMARY

Generative AI and Data Science Engineer with hands-on experience in building end-to-end AI systems using real-world data. Specialized in Retrieval-Augmented Generation (RAG), GenAI pipelines, and scalable machine learning solutions. Proven ability to architect embedding-based retrieval systems, deploy AI applications, and transform complex data into production-ready intelligence systems.

EDUCATION

BMS College of Engineering, Bengaluru
B.E. in Computer Science (Data Science)

Expected Aug 2027
CGPA: 8.65

SKILLS

Programming: Python, Java, C, SQL

ML & GenAI: RAG, GenAI, TensorFlow, PyTorch, Scikit-learn, NLP, Computer Vision

Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI

Tools: LangFlow, Git, Jupyter Notebook, DBMS

Explainability: SHAP, LIME

PROJECTS

MindVault – AI-Powered Memory Vault Mobile Application *In Development*
GenAI, RAG, LangFlow, Vector Databases, Python

- Built a mobile RAG application for context-aware memory retrieval across 1,000+ entries, eliminating hallucinations through grounded semantic search.
- Architected a four-layer system integrating data ingestion, embedding generation, vector search, and LLM synthesis.
- Designed intelligent chunking and retrieval mechanisms, improving query relevance by 30% over keyword search.

Aadhaar N.E.X.U.S – National Digital Governance Intelligence System Live – GitHub
Python, Pandas, Streamlit, Plotly

- Analyzed 24 months of Aadhaar enrollment data across 36 States/UTs and 645+ districts, processing 500M+ records.
- Engineered a Digital Equity Index integrating three risk dimensions into a normalized 0–1 framework.
- Launched an interactive Streamlit dashboard with state-level drill-down and four-tier risk classification system.

YouTube Query-Based Video Playback System GitHub
GenAI, RAG, Whisper, LangFlow, Streamlit

- Developed a query-driven video retrieval system with timestamp-accurate playback using RAG architecture across 50+ videos.
- Transcribed and indexed 200+ hours of content using Whisper, reducing manual search time by 40%.
- Launched an interactive Streamlit application serving 100+ context-relevant segment retrievals.

DetectAI – AI Content Detection Mobile Application GitHub
Machine Learning, Android Studio, Flask

- Created an Android application to classify AI-generated versus human-written content using three custom ML models.
- Achieved 85%+ accuracy across 100+ test samples with 2–4 second real-time inference and REST API integration.
- Crafted a user-friendly Android UI delivering sub-3 second response times for seamless user experience.

CERTIFICATIONS & ACHIEVEMENTS

- GenAI & RAG Systems Training – AMAGI (2025)
- Winner – GenAI Hackathon (RAG-based contextual search chatbot), BMSCE (2025)
- Winner – DecodeAI Contest, BMSCE (2025)
- UIDAI N.E.X.U.S Hackathon Participant (National Digital Governance) (2026)
- VISA Hackathon Participant – IIT Madras (2026)

LEADERSHIP & ACTIVITIES

- Event Organizer, DSync Club
- Organizing Committee Member, College Fest (Utsav)