

Rudra Dave

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[GitHub](#) | [LinkedIn](#)

EDUCATION

Master in Science, Big Data Analytics (M.Sc. BDA) Jai Hind College, Mumbai University	Jun 2024 - Jul 2026
Bachelors of Science in Information Technology (BSc.IT) KES B.K.Shroff College	Jun 2020 - Jul 2023 CGPA: 8.90/10

PROJECTS

RAG Based Question & Answering System | Python, RAG

- Built a lightweight Retrieval-Augmented Generation (RAG) system using FastAPI, SentenceTransformers, and FAISS, enabling semantic search over uploaded PDF/TXT documents with efficient chunking (500-token + overlap) and similarity-based retrieval.
- Designed a modular and cost-free extractive QA pipeline with background ingestion, lazy ML model loading, and optimized query latency tracking—demonstrating end-to-end document embedding, vector indexing, and retrieval without external LLM dependencies.

Operational Issue Investigation & Reporting using PySpark and SQL | SparkSQL, PySpark API

- Investigated operational delays across routes, airports, and time periods using structured datasets
- Applied SQL-based analysis to identify recurring system-level issues and bottlenecks.

Business Trend Analysis & Data Interpretation for Air India Dataset | Python

- Analyzed long-term historical operational data to identify trends and deviations
- Built visual reports to communicate findings clearly to non-technical stakeholders.

Real-Time News Monitoring & Dashboard Reporting | Power BI

- Analyzed continuously updated news data to identify key trends and topic-wise patterns
- Built interactive dashboards to present insights clearly to non-technical stakeholders

SKILLS

- Programming: Python, RAG, SQL, R, MongoDB.
- Machine Learning algorithms.
- Frameworks & Tools: scikit-learn, TensorFlow, PyTorch.
- Data Analysis & Visualization: Excel, Tableau, Power BI.

ACHIEVEMENTS AND CERTIFICATIONS

- Fifth Rank in the IIM Nagpur VizQuest 3.0 Data Analytics Competition. ([Project Link](#))

RESEARCH PAPERS

- [Big data solutions using Artificial Intelligence.](#)
- **The cognitive paradox:** Assessing the impact of agentic AI orchestration on knowledge synthesis in UPSC current affairs preparation. (Ongoing)

COMMUNITY SERVICES AND EXTRA-CURRICULARS

The Analytics Collective Club

Co-Founder

Jan 2025 - Present

- Co-founded The Analytics Collective Club, engaging 20+ students in hands-on data analytics and AI projects.
- Guided 20+ members through a complete project lifecycle to strengthen their portfolios in a final 10-slide presentation.

Chakravyuha

IT Head

Nov 2022 - Feb 2023

- Led the IT team for an international cultural fest, managing event websites, registration systems, and on-ground technical support to ensure seamless operations.