

AAYUSH SAXENA

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Data Scientist / GenAI Engineer

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Data Scientist with 3+ years of experience in Predictive ML, Generative AI, and RAG systems. Built production-ready AI solutions across retail and insurance, with hands-on experience in LLM optimization and multimodal ML.

EDUCATION

- **M.Tech** in Applied Artificial Intelligence
[Visvesvaraya National Institute of Technology, Nagpur](#)
Dec 2023 – Dec 2025
 - **Research focus:** Multimodal Deep Learning, SLMs, Generative AI systems
 - **Dissertation:** *Multimodal Stress Detection using Physiological Signals (StressXNet)*
- **PG Diploma** in Data Science & Applications
[Axis India Maching Learning Research Labs, Jaipur](#)
Jan 2020 – Jan 2021
- **B.Tech** in Computer Science Engineering
[JECRC University, Jaipur](#)
May 2016 - 2020

PROJECTS

Multimodal Stress Detection (StressXNet)

- Designed a multimodal deep learning framework combining physiological signals.
- Applied feature-level and decision-level fusion strategies.
- Evaluated model robustness across different signal modalities.
- Focused on interpretability and generalization of deep models.

Retail Intelligence Assistant (LLM + RAG)

- Worked on building a RAG-based assistant using LLMs and internal retail data.
- Used LangChain / LangGraph to handle retrieval and tool-based flows.
- Spent time improving answer quality by reducing irrelevant or hallucinated responses.
- Helped expose the solution through APIs for use in client applications.

Insurance Claims Fraud Detection

- Built ML pipelines using XGBoost and Random Forest.
- Focused on class imbalance handling and evaluation metrics beyond accuracy.

CO-CURRICULUM ACTIVITIES

- **Internships during College (2016–2020)** – Gained hands-on experience in diverse roles including ML, Web development, E-summit organization, and lead generation.
- **Tech Blogger & Mentor** – Published practical content on applied ML and mentored other data scientists via GitHub/LinkedIn.

WORK EXPERIENCE

Associate Data Scientist – GenAI *July 2025 – Nov 2025*

[Easyrewardz Software Services](#)
Gurugram, India

- Designed agentic LLM chatbot with RAG + tool-calling handling ~20 queries hourly.
- Automated domain-aware RAG pipelines using vector databases with optimized chunking, embedding, and retrieval strategies.
- Improved response accuracy by **18%** and reduced latency by ~**30%** using retrieval tuning + prompt optimization.

Data Scientist – Predictive ML *Feb 2023 – July 2025*

[Aureus Analytics, a Gradatim Insurance Tech Company](#)
Mumbai, India

- Developed predictive ML models for insurance claims and fraud detection.
- Improved fraud detection performance by ~20% using feature engineering and ensemble methods.
- Improved cross-functionality to translate ML outputs into actionable insights.

Associate Data Analyst *Aug 2021 – May 2022*

[GlobalLogic \(Hitachi Group Company\)](#)
Gurugram, India

- Led A/B testing and statistical analysis to optimize marketing strategies.
- Built dashboards and reporting pipelines to support decision-making.

SKILLS

Languages & Tools - Python, SQL, R, FastAPI, TensorFlow, PyTorch, Langchain, LangGraph

Machine Learning & AI - Supervised & Unsupervised Learning algorithms, Neural Networks, Transformers

Deployment & Database - CI/CD Pipeline, API Development, Docker, VertexAI, Milvus, Qdrant, FAISS