AAYUSH SAXENA

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Data Scientist

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Passionate about creating AI that works for people — I build agentic chatbots and RAG systems at Easyrewardz, enabling retail brands to transform customer engagement with intelligent automation. Alongside industry work, I explore research in multimodal stress detection (StressXNet) and LLMs, focusing on how AI can be made more reliable and context-aware. My goal is to design trustworthy, scalable AI systems that stand at the intersection of academic rigor and real-world impact.

EDUCATION

- **M.Tech** in Applied Artificial Intelligence
  Visvesvaraya National Institute of Technology, Nagpur
  Jan 2024 - 2026
- **PG Diploma** in Data Science & Applications
  Axis India Maching Learning Research Labs
  Jan 2020 - 2021
- **B.Tech** in Computer Science Engineering
  JECRC University, Jaipur
  May 2016 - 2020

PROJECTS

Academic Assistant Chatbot (LLM + RAG)
- Built a student assistant using Gemini + Langchain + FAISS for context aware query answering.
- Fine-tuned LLMs using LoRA/QloRA on academic Q&A datasets.
- Integrated via Streamlit + Google Classroom API for assignment tracking.

Anomaly Detection in CT Scans using Variational Autoencoders
- Trained a VAE to detect discrepancies in unstructured data.
- Used plotting techniques to visualize latent space and interpretability.

Insurance Claims Fraud Detection using XGBoost algorithm
- Designed a fraud detection model using Random Forest and XGBoost, to flag suspicious claims.
- Integrated the model into the production pipeline with real-time alerts.

WORK EXPERIENCE

Associate Data Scientist   July 2025 – Present
Easyrewardz Software Services
Gurugram, India

- Building agentic chatbots and RAG systems for BFSI/retail clients by integrating LLMs with business knowledge.
- Optimizing retrieval accuracy using vector DBs, embedding, and chunking for scalable deployments.

Data Scientist   Feb 2023 – July 2025
Aureus Analytics, a Gradatim Insurance Tech Company
Mumbai, India

- Built predictive models for insurance claims, boosting fraud detection accuracy by 30%.
- Collaborated with cross-functional teams to translate insights into strategic decisions.

Associate Data Analyst   Aug 2021 – May 2022
GlobalLogic, a Hitachi Group Company
Gurugram, India

- Optimizing retrieval accuracy using vector DBs, embedding, and chunking for scalable deployments.
- Led A/B testing and analytics to optimize marketing spend and reporting.

SKILLS

Languages & Tools - Python, SQL, R, FastAPI, TensorFlow, PyTorch, Langchain, LangGraph, GenAI, LLM
Machine Learning & AI - Supervised & Unsupervised Learning algorithms, Neural Networks, Transformers
Deployment & Database - MLflow, CI/CD Pipeline, API Development, Docker, VertexAI, Milvus, Qdrant, FAISS

CO-CURRICULUM ACTIVITIES

- **Internships during College (2016–2020) –** Gained hands-on experience in diverse roles including graphic design, web development, E-summit organization, and lead generation.
- **ML Internship – Axis India ML Labs (2021) –** Built lead-scoring models using ensemble techniques and hyperparameter tuning.
- **Tech Blogger & Mentor –** Published practical content on applied ML and mentored other data scientists via GitHub and LinkedIn.
- **Freelance UI/UX Designer –** Designed branding and product UI interfaces for early-stage startups.