

Rohan Karna

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EDUCATION

Indian Institute of Technology Jodhpur

M.Tech in Data and Computational Science — CGPA: 8.14

Jodhpur, India

July 2025 – June 2027

Amrita Vishwa Vidyapeetham

B.Tech in Electronics and Communication Engineering — CGPA: 8.33

Bengaluru, India

Oct 2020 – July 2024

EXPERIENCE

Maruti Dairy Product Pvt. Ltd.

Freelance Data Analyst

Remote, Nepal

Nov 2024 – June 2025

- Owned end-to-end data analysis and reporting for business operations, converting raw operational data into leadership-ready insights that informed strategic decisions.
- Designed client-facing dashboards and presentations that accelerated data-driven decision-making across the organization.

POSITIONS OF RESPONSIBILITY

Office of Training & Placement, IIT Jodhpur

Placement Team Member

Jodhpur, India

Aug 2025 – Apr 2026

- Acted as primary liaison between recruiters and students, driving end-to-end coordination of campus placement drives across onboarding, scheduling, and recruiter relations.
- Represented the batch in placement discussions, resolving student concerns in real time and strengthening industry-institute collaboration and recruiter engagement.

PROJECTS

Healthcare RAG System | *Python, LangChain, Qdrant, Ollama, Streamlit, FastAPI*

GitHub

- Architected an end-to-end Retrieval-Augmented Generation pipeline ingesting trusted clinical sources (CDC, WHO), engineering the chunking, embedding, and semantic search layer via Qdrant.
- Designed a hybrid dense + BM25 retrieval system with reranking and citation-backed generation, materially reducing hallucination risk on high-stakes healthcare queries.
- Deployed a full-stack chat interface (Streamlit + FastAPI) delivering grounded, source-attributed medical answers in production.

E-commerce Return Risk Platform | *Python, FastAPI, XGBoost, SHAP*

GitHub

- Engineered an end-to-end return-risk pipeline on the Olist dataset, fusing tabular, review-text, and image signals into a unified predictive model.
- Built and benchmarked XGBoost models with stratified cross-validation and class-imbalance handling; ran tabular-vs-text-vs-image ablations and layered in SHAP for per-order explainability.
- Quantified the causal impact of seller practices (e.g., size charts) on returns using propensity score matching — surfaced through a live FastAPI + Streamlit dashboard for sellers.

SKILLS

AI / Machine Learning: Python, SQL, Machine Learning, Deep Learning, Statistics, EDA, Feature Engineering, Causal Inference, Scikit-learn, PyTorch, XGBoost, SHAP, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, LangChain, LangGraph, Qdrant, Ollama, RAG Pipelines, Prompt Engineering

Backend & Web: FastAPI, REST APIs

ACHIEVEMENTS

Secured 3rd place out of 100+ participants in NeuroRobotics Hackathon 2026 (IIT Jodhpur).

Ranked 3rd in the Department of Data and Computational Sciences, M.Tech, IIT Jodhpur.