Archit Rishabh

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Education

PES University Bangalore
B.Tech, Artificial Intelligence and Machine Learning 2023 - 2027
Delhi Public School South CBSE Class XII: 91% 2021 - 2023
Bishop Cotton Boys' School ICSE Class X: 96.67% 2011 - 2021

Experience

NexTurn Limited *Python, LLM APIs, RAG, Embeddings, Vector Search*
Data and AI Strategy Intern

- Built a RAG based document analysis and visualisation pipeline for a **$150M** firm, cutting client insight generation time by **93%**.
- Parsed, chunked and embedded **10+** simultaneous unstructured documents into a vector index, using structured LLM outputs to extract key metrics into automated visual reports.

Windstream Technologies *Python, NumPy, ERA5 Weather Data, LLM APIs*
Founder's Office Intern

- Built a Python energy yield model on **35,000+** hourly weather records across **100+** sites, showing a hybrid turbine redesign lifts output **20 to 25%** only at windy sites and loses up to **13%** elsewhere, redirecting spend to panel and battery upgrades.
- Built a tender tracker that scrapes government tender portals, classifies tenders with LLMs and emails the bid team a daily digest; used by the company, resulting in an **8 figure contract** now underway.

OOH Advertising Firm
Founder's Office Intern

- Analysed crowd flow and visibility data across **50+** Delhi Metro stations (~**30L** daily commuters) to build a data driven site prioritisation framework.

Projects & Research

Immunological Supply Chain (Capstone) *Python, PyTorch, GCN, PPO, XGBoost, FAISS*

- Built a **28 stage** ML and RL pipeline (GCN anomaly detection, PPO rerouting, FAISS disruption memory) over **240K+** supply chain records.
- Blind backtest on real USAID shipment data flagged the Haiti 2010, Suez Canal and Red Sea disruptions; recommended vendors beat actual procurement on late rate in **71% of 76** cases. Journal paper under consideration.

Invoice Exception Triage *Python, LLM APIs*

- Built a tool that runs three way matching across purchase order, receipt and invoice, and explains each mismatch in plain English.
- Caught **16 of 16** planted exceptions on a synthetic test set; **505** automated tests, fresh clone check passing.

Call QA for Voice Agents *Python, LLM APIs*

- Built a test harness where LLM simulated callers (confused, Hinglish, adversarial) talk to an agent built from a client SOP, and an LLM judge flags the exact failing turn.
- On a live **5 caller** run, the naive prompt passed **0 of 5** and the fixed prompt **4 of 5**; **428** automated tests.

GTM Lead Intelligence Platform *Python, FastAPI, PostgreSQL, Airflow, Redis, Docker*

- Built an Airflow orchestrated ELT pipeline ingesting **3** source types into a **3 layer** PostgreSQL warehouse, enriching leads with LLM extracted firmographics and FAISS similarity search, served through FastAPI on Docker Compose.

Leadership & Activities

PESU Entrepreneurship Cell Organising Committee

- Architected a **20 case** business simulation from real corporate problems, run for **100+** participants.

Drishtikon '26, IIMS Pune National Case Competition Finalist

- Reached the national final from a field of **750+** applicants.

Sports Cricket, Football, Basketball

- Won the Cottonian Shield and KSCA BT Ramaiah Shield (Best Wicketkeeper in both); represented PES University in football and basketball.