

## Technical Skills

- **Generative AI & NLP:** LLM/SLM Deployment (Ollama), RAG Architecture, Embedding Models, Hugging Face Transformers
- **Programming & Libraries:** Python, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib, Streamlit
- **Data Engineering & ETL:** SQL (MSSQL, PostgreSQL), Snowflake, ETL Pipelines, Data Crawling, Structured & Unstructured Data Processing
- **Automation & Systems:** Selenium, Playwright, PyInstaller (Executable Deployment), Multithreading, Task Scheduling
- **Protocols & Tools:** SMTP, SNMP, GitLab, GitHub

## Professional Experience

### IoT And Operations Executive | [BARC India](#)

Mar 2024 – Present

- **Led development of 3 end-to-end automation tools** (POP Alert Tool, Watermark Scheduler, Feedloss Validator), reducing manual effort by 70–80% and improving executive-level reporting accuracy.
- **Automated Outage ETL Pipeline:** Engineered an end-to-end pipeline to crawl emails, extract tabular data into Pandas DataFrames, and validate results against MSSQL database, minimizing manual intervention to exception handling only.
- **WMM Log Diagnostic Tool:** Built a high-performance log analyzer to process 4-second resolution meter logs, automatically detecting watermark start times and calculating total downtime duration.
- **POP Alert Tool (Automation):** Designed a multithreaded automation system for WMM meter maintenance, reducing workflow time from ~2 hours to 30 minutes.
  - *Recognized with BARC Quarterly Award (Q2 FY25–26) and Senior VP Kudos.*
- **Daily Watermark Report Scheduler:** Developed a zero-touch scheduler using SQL stored procedures and Python, automating data extraction and email reporting to leadership via SMTP.
- **Operational Efficiency:** Improved meter inventory accuracy to 98% and reduced broadcast downtime by 25% through proactive monitoring and SQL-driven reporting.

### Management Trainee | [Pharmint PTE LTD](#)

May 2023 - Mar 2024

- Analyzed 2 million Import-Export Pharmaceutical Trade records, resulting in a 15% improvement in supplier discovery for new buyers.
- Verified multiple international suppliers, ensuring accuracy in transactions.
- Streamlined data processing workflows, reducing analysis time by 30%.

## Technical Projects

- **On-Premise RAG System** (In Progress):
  - Currently building a retrieval-augmented generation (RAG) system using Ollama and ChromaDB for private document querying.
  - Exploring embedding models, vector databases, and context-aware response generation as part of hands-on learning in Generative AI.
- **Local Deep Learning Environment:**
  - Configured WSL with NVIDIA RTX 3050 GPU support for efficient PyTorch model training and optimized local LLM inference.
  - Reduced dependency on cloud platforms by enabling a fully local development setup.
- **Feedloss Validator:**
  - Built an automated Excel-to-SQL validation system using Python and Pandas, reducing manual cross-checking effort by ~2 hours daily.

## Achievements & Education

- **Two-Time BARC Quarterly Award Winner (Q1 FY24–25, Q2 FY25–26)** for high-impact automation initiatives improving operational efficiency.
- Certification: Ultimate RAG Bootcamp – Krish Naik Academy (2025–2026)
- Specialization in Data Science & Machine Learning – Scaler (2024)
- Bachelor of Technology (B.Tech) – Rajasthan Technical University, Kota (2020).