Souvik Roy

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Summary

Software Engineer in Financial Markets with experience in reference data management. Skilled in Asset Control Development and AI. Key skills: Asset Control Solutions, DevOps, Project Management, Strategy, AI Engineering

Education

Indian Institute of Technology Gandhinagar   2018 - 2020
Master of Technology (MTech) in Computer Science & Engineering   *Gujarat, India*
- **Thesis:** Estimation of $PM_{2.5}$ using Satellite Data and Machine Learning [[video]](#)[[slides]](#)[[pdf]](#)

Jalpaiguri Government Engineering College   2014 - 2018
Bachelor of Technology (BTech) in Computer Science & Engineering   *West Bengal, India*

Technical Skills

Languages: Python, Bash, SQL, Formula Engine
AC: Data Modeling, IECL, Normalization, Price Consolidation, Bloomberg persec, distribution
DevOps & CI/CD: Azure DevOps, Ansible, Unix Shell Scripting, Git, Control-M, L3 Dev, Release Management
Frameworks & DB: FastAPI, PySpark, Oracle 19c, PostgreSQL, Elasticsearch, pgvector, Weaviate
Data Analytics: Databricks, Power BI, Tableau, Alteryx, Jupyter Notebook
AI Tools: Github Copilot, Cursor, Lovable, Supabase, n8n, ElevenLabs, Vapi, Julius

Experience

Standard Chartered   Nov 2024 – Present
Senior Manager, Development
- Developed end-to-end flows for on-boarding and distribution of Bond prices and Bond Static from Bloomberg in BB, N0 and C0 layers via SFTP, JSON/XML feed generation
- Resolving production issues, building new features, fixing bugs, providing L3 dev support with adhoc releases with Azure DevOps and change management.
- Led the Hardware & database migration of AC server, Linux servers, DB - oracle 11g to 19c, MQ, and legacy scripts
- Working on a Retrieval-Augmented-Generation (RAG) Chatbot PoC for financial reference data using AI using semantic search and vector databases

eClerx   Sep 2020 – Nov 2024
Senior Consultant at Morgan Stanley
- Led a data automation project for TTRO Transaction Reporting, focusing on MiFID, EMIR, SFTR, HKMA, CFTC, SEC & BOI regulations, to combine trade state reports and derivatives data with GLEIF.
- Deployed Python scripts and Alteryx workflows to automate cyclical and diagnostic testing, reducing manual processes by **90%**
- Built multiple Power BI dashboards for management information and data quality checks.Created data engineering pipelines and real-time data quality initiatives, utilizing an internal SQL-based rule engine.

IIT Gandhinagar
Graduate Student Researcher   *Aug 2018 – Aug 2020*
- Empirical study of air quality on college campus using air quality sensors [[slides]](#)
- Developed a real-time monitoring dashboard with air quality sensors [[video]](#)
- Curated air quality estimators and satellite dataset for India region [[video]](#)

Projects and Certifications

Estimation of $PM_{2.5}$ using Satellite Data | *Machine Learning, Atmospheric Sciences* | 🐙
- Presented at CoDS-COMAD held at Indian School of Business, Hyderabad.

Air Quality prediction using images | *Computer Vision, CNN* | 🐙
- Curated a dataset of images captured by live cameras of 3 locations
- Convolutional Neural Networks used to extract features from images to estimate air quality.

GitHub Copilot Certification Exam | [[verify]](#)
Alteryx Foundational Micro-Credential | [[verify]](#)