Rajesh Lourembam

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Bangalore

Profile:

Results-driven Data & Automation Specialist with more than 7 years of experience, holding a strong background in Python programming, REST API integration, and enterprise system automation. Proven track record in modernizing legacy workflows, optimizing BI ecosystems, and delivering scalable data solutions across security, analytics, and supply chain domains. Experienced in migrating and rationalizing BI platforms (IBM Cognos, Tableau, Power BI, SAP BO), leading to substantial cost savings and operational efficiency. Adept at integrating AI services (Azure OpenAI), orchestrating Splunk Phantom for security automation, and deploying data-driven models through web-based platforms using Flask and SQL. Known for combining technical precision with business acumen to deliver impactful, automated solutions that enhance decision-making, performance, and scalability.

Skills

- Python
- OOPS
- SQL
- Azure-OpenAI
- Agile
- Pandas
- NumPy
- Flask
- JIRA
- Excel

Work Experience

Role: IT Analyst
Tata Consultancy Services
07/2018 – Present

Achievements/Tasks

1. COBOL Data Mapping Automation

- Analysed **COBOL** program structures to identify variables and data mapping requirements.
- Designed a **Python workflow** integrated with **Azure OpenAI** to interpret and process **Excel-based input definitions**.
- Implemented **secure API authentication** and usage to ensure safe communication with the **OpenAI model**.

- Utilized **Python's OS module** to manage **project directory structures** and dynamically handle input/output paths.
- Generated **structured Excel outputs** with **contextual metadata**, enabling **seamless downstream integration** with **data engineering pipelines**.

2. BI Rationalization and Automation

- Collaborated with stakeholders to define **rationalization criteria** for **BI reports** across **Cognos, Tableau,** and **SAP BO platforms**.
- Developed **Python scripts** to fetch **report metadata** via **REST API calls** and scheduled execution using **cron jobs.**
- Analysed **usage patterns** to **identify redundant or underutilized reports**.
- **Automated archival** of obsolete reports, maintaining logs for audit and rollback.
- Reduced **BI platform clutter** and **contributed to cost savings** by optimizing license usage.

3. BI Platform Migration (IBM Cognos to Power BI)

- Assessed existing **Cognos reports** and **categorized** them based on **business priority and complexity**.
- Recreated reports in **Power BI**, ensuring functional and visual parity while upgrading capabilities where needed.
- Connected Power BI dashboards to **modernized data sources** with **secure access** and **performance tuning.**
- Conducted **validation sessions** with **stakeholders** and **implemented feedback** iteratively.
- Successfully **decommissioned IBM Cognos**, **reducing license** and **maintenance costs**.

4. BI Metadata Extraction and Due Diligence Automation

- Evaluated **metadata** schemas across **Tableau, Cognos, and SAP BO** to design a **standardized extraction model**.
- Developed a **Python tool to extract, transform,** and **harmonize metadata** from diverse BI platforms.
- Enabled **automated inventory, lineage analysis,** and **impact assessment** through structured metadata outputs.
- Integrated **logging** and **error handling** for reliability across environments.
- Enhanced **due diligence workflows** by accelerating BI system analysis and reducing manual effort.

5. Splunk Phantom Integration for Automated Security Response

- Gathered **client requirements** for **SOC automation** and defined use-case scenarios.
- Designed **Python-based integrations** between Splunk Phantom and external systems using **RESTful APIs**.
- Created **Phantom container workflows** to ingest and process security events in real time.
- Enabled **automatic incident triage, response triggering, and escalation using custom scripts.**

- **Improved security** posture by **reducing response time** and enabling 24x7 automation coverage.

6. Phantom Playbook Customization for NAR Decommissioning
- Analysed legacy **Non-Actionable Reports (NARs)** to identify automation opportunities.
- Developed Python scripts to dynamically generate **Phantom containers** tailored for NAR handling.
- Integrated the scripts into **Splunk Phantom playbooks,** enabling scalable decommissioning of redundant alerts.
- Automated **categorization, tagging, and dismissal** of low-priority events to reduce analyst workload.
- **Streamlined alert response process** and improved SOC operational efficiency.

7. Supply Chain Analytics Model Development
- Researched and selected key supply chain problem areas such as **distribution optimization and demand planning.**
- Applied **machine learning** and **statistical techniques** to build **predictive models** and optimization algorithms.
- Validated models using **historical data** and **real-world scenarios** to ensure accuracy and robustness.
- Created **dynamic simulations** to compare performance under various supply chain strategies.
- Delivered **actionable insights** to improve **service levels, minimize costs,** and **enhance decision-making.**

8. Web-Based Supply Chain Analytics Platform
- Designed and developed a back-end framework using **Flask (Python)** for hosting analytics models.
- Created a relational data backend using **SQL** to manage structured model inputs and outputs.
- Implemented REST APIs to facilitate smooth communication between the front-end UI and back-end logic.
- Designed **user-friendly web interfaces** for input submission, output viewing, and scenario analysis.
- Enabled end-users to run **models interactively** and **extract business** value without technical dependencies.

Internship Experience

Role: Data Science Intern
Tata Consultancy Services
11/2017 - 03/2018

Achievements/Tasks

1. Advanced Supply Chain Modeling and Optimization

- Conducted **theoretical** and **hands-on research** on supply chain problems including **TSP, inventory management, and procurement planning.**
- Built optimization models using Python libraries such as **SciPy, PuLP, and NumPy** for solving constrained problems.
- Simulated real-world supply chain scenarios to fine-tune model parameters and evaluate performance.
- Compared outcomes across multiple planning strategies to **identify cost-effective** and **timely solutions.**
- Demonstrated how theoretical models can be operationalized for business applications.

2. Development of Web-Based Supply Chain Modeling Framework

- Designed a **web-based solution** combining Python for backend logic, SQL for database, and XAMPP as the local server stack.
- Built dynamic front-end components using **HTML, CSS, and JavaScript** for interactive model execution.
- Enabled execution of foundational supply chain models like **EOQ and TSP** directly from the browser.
- Integrated **user input forms** and **output visualizations** to enhance model transparency and usability.
- Supported academic research and operational planning through an **intuitive and accessible software tool.**

Education

M.Sc.
Big Data Analytics
St Joseph's College (Autonomous)
2016 - 2018
Bangalore

B.Sc.
Statistics, Computer Science and Mathematics
St Aloysius College
2013 - 2016
Mangalore

Interests

- Cyber Security
- Computer Gaming
- Martial Arts
- Fitness
- Cosmology