Soumyadeep Mondal
Data Engineer, Accenture

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Summary

Dynamic and detail-oriented Data Engineer with 1+ years of experience in application impact analysis, resiliency planning, and dashboard development for healthcare systems. Proven ability to automate workflows using **PowerApps** and **Power Automate**, and build interactive dashboards with **Power BI** and **Tableau**. Proficient in **SQL** and data integration across platforms like **Atlas ODW** and **Salesforce**. Passionate about translating complex data into clear insights to support business continuity and IT strategy. Eager to transition into financial reporting and regulatory analytics, leveraging strong data engineering and automation background to support high-stakes compliance operations.

Technical Proficiency

- **Language/Software:** Python, SQL, Power BI, Tableau, PowerApps, MS Excel
- **Packages/Framework:** Numpy, Pandas, Matplotlib, Scikit-learn, Streamlit

Knowledge and Skills

- **Modelling Technique:** Logistic Regression, Linear Regression
- **Analytical Capabilities:** Descriptive analysis, Data wrangling, Data visualization, Root cause analysis
- **Industry Knowledge:** Integrated Healthcare Delivery System

Work Experience

Accenture
Data Engineer

Feb'24 - Present

- Partnered with application teams (ATLs, BAOs, ACMs) to lead the **Application Impact Analysis (AIA)** process—supporting initiation, revalidation, and advisory on resilience tiering and business capability alignment for care-critical and business-critical applications.

- Built and maintained Power BI dashboards covering key areas like **Cyber Resiliency, Disaster Recovery, Server Recovery, AIA Summary,** and **Application Tech Assessment**, enabling stakeholders to explore application health and infrastructure metrics interactively.

- Automated manual workflows using **Power Automate** and **PowerApps**, building chatbots and streamlining data movement—leading to improved operational efficiency and reduced manual tasks across teams.

- Integrated data from platforms like **Atlas ODW** and **Salesforce (Fusion)** to automate reporting and deliver **actionable insights** for **risk mitigation** and **compliance**.

- Leveraged advanced **SQL** and **Power BI** to analyze and visualize complex, multi-source datasets, and support the client's disaster recovery strategy through data-backed insights and regular stakeholder collaboration.

Independent Technical & Domain-Relevant Projects

- **Regulatory Reporting Simulator (FR Y-9C & Capital Adequacy Dashboard):** Designed a regulatory reporting simulator to automate key components of the **FR Y-9C** process for U.S. banks. Utilized **Python** and **SQL** for **data validation**, **reconciliation**, and **capital adequacy checks**. Developed an interactive **Power BI dashboard** to visualize **capital ratios**, **risk-weighted assets**, and **reporting errors**. Demonstrated strong understanding of **regulatory compliance**, **reporting controls**, and **data-driven automation** in financial reporting.

- **Bank Transaction Fraud Detection:** Built an **end-to-end ETL pipeline** to process and analyze bank transaction data for **fraud detection**. Used **Python** and **Airflow** to automate daily ingestion and transformation, stored data in **PostgreSQL**, and **applied rule-based logic to flag anomalies**. Created a **Streamlit** dashboard to monitor flagged transactions and trends. Deployed components on **AWS** for **cloud simulation**.

- **Stock Market Sentiment Analysis:** Built **an LSTM-based predictive model** in **Jupyter Notebook** to analyze sentiment from financial news articles and forecast potential stock price trends. Applied **Natural Language Processing (NLP)** to extract sentiment polarity and used time-series modelling to simulate market behaviour. Deployed visual outputs and interactive insights using a **Streamlit App** to showcase trends and model predictions.

- **Online Car Renting System:** Developed a **web-based rental management platform** for booking and tracking cab rentals. Designed backend logic to capture, store, and retrieve structured data like user info and booking logs, simulating real-time data flow and basic **CRUD operations.**

Education

Guru Nanak Institute of Technology
2019 - 2023

B.Tech in Information Technology | CGPA: 8.71

Certifications/Courses

- Power BI Desktop for Business Intelligence | Udemy
- Microsoft Excel - Excel from Beginner to Advanced | Udemy
- SQL - MySQL for Data Analytics and Business Intelligence | Udemy
- Applied Machine Learning in Python | Coursera
- Data Science in Python | Coursera