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.

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, Feature engineering, Data visualization, Root cause analysis
- **Industry Knowledge:** Integrated Healthcare Delivery System
- **Soft Skills:** Stakeholder Management, Project Management, Technical Documentation`

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 Projects

- **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
B.Tech in Information Technology | CGPA: 8.71

2019 - 2023

Certifications

- 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