Sajal Das

✉ contact.sajaldas@gmail.com   📞 +8801521256661   🔗 sajaldoes.netlify.app   in sajaldoes

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Experience

Progoti Systems Ltd. (TallyKhata), Data Engineer   Jun 2023 - Present
- Built and optimized **ELT pipelines** integrating data from Google Sheets, Excel, CSV, MongoDB, and MySQL into PostgreSQL, ensuring data integrity and efficiency.
- Led DB and cloud migrations, maintaining **star-schema data models** and performing data validation to ensure smooth transitions.
- Automated **DWH data archival** to **AWS S3/Glacier**, creating monthly deep storage processes to reduce costs.
- Developed **Flask-based WebApp** to manage SELECT permissions for Data Analysts, enhancing secure data access.
- Set up **automated email** alerts for auditing DWH table creation and permissions, and transactional KPIs.

Progoti Systems Ltd. (TallyKhata), Associate Data Analyst   Dec 2023 - May 2024
- Created dynamic dashboards for TallyPay that facilitate data-driven executive decision-making and offer **real-time KPI** analysis.
- To improve focused marketing strategies, **user segmentation models** were developed and put into practice, dividing customers into Platinum, Gold, Silver, and Bronze categories based on their transactional patterns.
- Developed **fraud detection algorithms** that use a variety of criteria to validate transaction data that seems suspect.

AponTech Ltd., Jr. Data Analyst   May 2023 - Nov 2023
- Employed **state-of-the-art Machine Learning algorithms** for sales forecasting, achieving precise sales predictions. This strategic analysis played a pivotal role in unlocking 13.6 million BDT in product utilization.
- Leveraged cutting-edge BI tools to drive **data-driven offer promotions**, delivering a remarkable increase in profits.

Daffodil Software Limited, Python Developer Intern   Dec 2020 – Apr 2021
- I contributed to Odoo web projects while cultivating a strong interest in the potential applications of **Machine Learning** for future business enhancements.

Skills

Languages: Python, SQL, PL/pgSQL, C

Database: PostgreSQL, BigQuery, MS SQL Server, SQLite, MongoDB, MySQL

Tools: ETL Pipelines, FASTAPI, Spark, Pandas, Tableau, Power BI, Tensorflow, PyTorch

DevOps: Git, AWS, Linux, Azure, Snowflake, Docker, Selenium, Flask

Soft Skills: Leadership, Adaptability, Problem Solving, Quick Learning, Teamwork

Education

BSc   **Daffodil International University**, Computer Science & Engineering   Jan 2019 – Dec 2022
- CGPA: 3.99/4.0

Publications

- A Comprehensive Roadmap on Bangla Text-Based Sentiment Analysis. ACM TALLIP. **DOI:** 10.1145/3572783.
- A Substantial Deep Learning Approach for Classification of Local and Coastal Fish. **DOI:** 10.1007/978-3-031-35641-4_29.
- FishNet: Fish Classification using Convolutional Neural Network. **DOI:** 10.1109/ICCCNT51525.2021.