

Nazia Afrin

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Summary

Results-driven Data Engineer with 2+ years of experience in designing, building, and optimizing ETL pipelines, data warehouses, and analytical solutions. Proficient in PL/pgSQL, Python, Apache Airflow, Airbyte, and DBT, with hands-on expertise in data migration and performance tuning. Proven ability to develop scalable data architectures and streamline data workflows. Passionate about leveraging data to drive insights and business value.

Work Experience

Data Engineer, Brac IT Services Limited, Dhaka

2022 - 2025

- Developed data pipelines processing over 10 million data points daily, enabling accurate and timely financial reporting for BRAC's finance team.
- Developed and maintained PL/pgSQL packages that optimised the handling of millions of financial records, reducing query execution time.
- Designed and orchestrated scalable ETL workflows using Apache Airflow and Airbyte, improving data processing efficiency.
- Contributed to BRAC University Data Migration Project, successfully transferring and validating critical academic and financial data across systems.
- Enhanced data warehouse performance, resulting in faster report generation time for key business stakeholders.
- Collaborated with cross-functional teams to integrate ERP systems and financial data into business processes, increasing reporting accuracy.
- Developed Python-Django analytics tools to automate repetitive reporting tasks.

Education

- Masters in Data Science, Charles Darwin University, Sydney, Australia

2025-Current

Skills

- **Programming and Scripting:** Python (Pandas, NumPy, PySpark), PL/pgSQL, SQL, JavaScript
- **Data Engineering and ETL:** Apache Airflow, Airbyte, dbt, Docker, Data Pipelines, Workflow Orchestration, Data Modelling, Data Warehousing, ETL Design and Automation Apache Airflow, Airbyte, dbt, Docker, Apache Spark, Apache Hadoop
- **Analytics and Machine Learning:** Exploratory Data Analysis (EDA), Feature Engineering, Scikit-Learn, TensorFlow (basic)
- **Software Development Concepts:** OOP, REST APIs, Django Basics, Version Control (Git, GitHub)
- **Visualization and Reporting:** Power BI, Dashboarding, Data Interpretation, Reporting Automation, Ms Excel

Projects

- **Exploratory Data Analysis on glassdoor Dataset**
Performed detailed exploratory data analysis on a large dataset to extract insights and trends.
GitHub: Code
- **Statistical Analysis on Real Estate Dataset**
Conducted statistical analysis to identify pricing patterns and market trends in real estate data.
GitHub: Code
- **Power BI Dashboard – Financial Investment Dataset**
Built an interactive dashboard using Power BI to investigate investment data by different stakeholders. designed DAX measures and created visual reports to support decision-making.
GitHub: Code
- **Power BI Dashboard – BMW Car Sale Data Analysis**
Built an insightful dashboard using Power BI to track KPIs, sales trends, and product performance. Designed DAX measures and created visual reports.
GitHub: Code

Language Proficiency

IELTS (International English Language Testing System)

Overall Band Score: 7.5

Listening: 8.5, Reading: 7.5, Writing: 6.5, Speaking: 7.5

Publications

- Yeasmin, S., Afrin, N., Saif, K., Huq, M.R.: "Development of a text classification framework using transformer-based embeddings." In *Proceedings of the 11th International Conference on Data Science, Technology and Applications (DATA 2022)*.
- S. Yeasmin, N. Afrin, K. Saif, O. T. Imam, A. W. Reza, and M. S. Arefin: "Image Classification for Identifying Social Gathering Types." In *5th International Conference on Intelligent Computing Optimization 2022 (ICO 2022)*.
- Yeasmin, S., N. Afrin, K. Saif, A. W. Reza, and M. S. Arefin: "Towards Building a Sustainable System of Data Center Cooling and Power Management Utilizing Renewable Energy." In *5th International Conference on Intelligent Computing Optimization 2022 (ICO 2022)*.
- Yeasmin, S., N. Afrin, and M. R. Huq: "Transformer-based Text Clustering for Newspaper Articles." In *International Conference on Machine Intelligence and Emerging Technologies 2022 (MIET 2022)*.

References

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