

# Nazia Afrin

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## Summary

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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

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### 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

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

2025-Current

## Skills

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- 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

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- **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

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**IELTS (International English Language Testing System)**

Overall Band Score: 7.5

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

## Publications

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- 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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