

# Arindom (Arin) Baruah

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## SUMMARY

Armed with a strong academic background and proven experience as a business analyst and a process engineer at leading organizations, I possess hands-on expertise in applying data science and analytics in real-world scenarios. Proficient in utilizing tools like R, Python, SQL, MS Excel, MS Power BI, and Tableau, I am adept at extracting actionable insights from data while effectively delivering in a team environment. My passion lies in leveraging data-driven methodologies to tackle intricate business and research challenges, driving impactful outcomes and organizational success. Actively seeking a graduate or a full-time position to be able to leverage my skills and help the organization to deliver their goals.

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## SKILLS

- **Programming:** R, Python, SQL.
  - **Software:** MS Teams, MS PowerBI, MS Excel, MS Project 365, Tableau, Trello, GitHub.
  - **Core:** Exploratory Data Analysis, Machine Learning, High-dimensional analysis, Project management, Teamwork, Communication skills, Root cause analysis, Data visualization, Forecasting, Infrastructure capital delivery planning, Risk analysis, Cost analysis.
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## CAREER HIGHLIGHTS

### Data Analyst

2/2024-Present

Melbourne Water Corporation

- Served as a Data Analyst in the organisation's Service Assets and Lifecycle division, focusing on implementing a data-driven decision-making approach to develop the upcoming Capital Delivery Model, with a projected portfolio value of \$3 billion. Key responsibilities included automating KPI trackers to assess ongoing service provider performance and enhancing the efficiency of project delivery evaluation.
- Successfully implemented an ETS and ARIMA forecast model for obtaining the upcoming number of projects that can be expected in the next price submission period, thereby enabling better project resource planning and data-driven decision making.
- Developed an optimized ETL pipeline using PowerQuery and R scripts to automate data cleansing, reducing processing time by up to 50% and enabling seamless integration with PowerBI for real-time reporting of critical project metrics.
- Provided detailed insights from project data by implementing text analysis scripts on MS Excel as well as R, and subsequently reported the data to the Major Capital Delivery team to obtain the current capital expenditure on outsourced project activities.
- Developed and maintained comprehensive Power BI dashboards to analyse past capital delivery performance, providing valuable insights for the design of new delivery models worth up to \$5 billion. Other dashboards also reported key performance indicators (KPIs) such as project cost variations, sustainability scores, financial expenditures, and other critical metrics to support decision-making and strategic planning.
- Designed a custom MS Excel template enabling comprehensive comparison of current and historical results, in-depth outlier analysis for KPI submissions by service providers, and discrepancy detection to ensure data accuracy. This template is now widely adopted for projects totaling up to \$1 billion, enhancing reporting accuracy and decision-making.

### Technical Data Analyst

6/2021-2/2023

ArcelorMittal Nippon Steel

- Performed data-driven time and motion-based study to reduce downtime of the production unit resulting in potential annual cost savings of 1.8 million dollars.
- Collaborated with multiple departments and team leaders to provide product sample data analysis and draw conclusions through intuitive visualisations.

- Created a process monitoring dashboard on PowerBI for quick anomaly detection, which allowed for regular corrective and preventive actions to be taken on short notice and further reduced data cleaning operation duration by 70%.
- Compiled, maintained and visualised data containing critical sustainability indicators for studying the effect of the manufacturing plant on the environment.
- Implemented various statistical quality control techniques, such as control charts, to study and monitor the current process deviations before and after any significant process alteration.

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## EDUCATION

**Master of Business Analytics (WAM: 87.4 %)**

**Completion: 2024**

*Monash University, Australia*

- *School of Business and Econometrics*

**Master of Technology (CGPA: 9.42/10)**

**2021**

*Indian Institute of Technology, India*

- *Metallurgy Engineering*

**Bachelor of Technology (CGPA: 7.87/10)**

**2018**

*Manipal Institute of Technology, India*

- *Mechanical Engineering*
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## CERTIFICATIONS

- [IBM Data Science professional certification](#)
  - [Microsoft Azure Data Fundamentals certification](#)
  - [Data science bootcamp by 365 data science](#)
  - [Databases and SQL for Data Science by IBM](#)
  - [Data Science and Machine Learning with R](#)
  - [Machine Learning with Python by IBM](#)
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## LIST OF ACHIEVEMENTS

- [Monash Business School Dean's Excellence Unit Award](#) — Honored for meritorious academic performance, demonstrating consistent excellence and commitment to academic achievement.
  - [Finalist, 2024 Student Water Awards, Australian Water Association](#) — Recognised for critical contributions to forecasting and data analytics in developing an optimised capital delivery model, demonstrating innovative solutions for future water infrastructure planning.
  - People's Choice Winner, Matilda Data Viz Annual Competition, University of Sydney — Awarded for an [impactful data visualisation](#) exploring the intricate relationship between mental health and substance use disorders.
  - Winner, National Australia Bank Annual Datathon, Monash University — Recognised for delivering an insightful analysis on Australia's waste disposal challenges, presenting data-driven solutions to address this pressing environmental issue.
  - Received the annual performance award at ArcelorMittal for my involvement in the project aimed at creating a PowerBI dashboard for communicating the major key performance indicators of the production plant and proactively highlighting process anomalies.
  - Awarded the merit scholarship award for my performance in school year 10 and 12 by the Government of India.
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## COMMUNITY INVOLVEMENT

**Business Analyst Consultant**, Global Victoria Intellect Program, Practeria

**3/2023-6/2023**

- Delivered in-depth market research analysis, facilitating strategic decision-making