Arindom (Aaron) 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.

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.

CAREER HIGHLIGHTS

Business Analyst Intern   2/2024-5/2024
Melbourne Water Corporation

- Deployed as a Business Analyst intern in the Service Assets and Lifecycle division of the organization, primarily tasked with assisting in providing a data-based decision-making approach to formulate the upcoming Capital Delivery Model.
- Successfully implemented a risk analysis component based on safety key performance indicators in the current Capital Delivery Model which allowed for streamlining the selection of service providers to carry out the project activities in the intended project time frame.
- 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.
- Maintained a stakeholder communication management plan and effectively organized the project schedule to complete the delegated tasks in specified number of sprints.
- Created a dashboard on PowerBI for obtaining the forecast of project sizes based on historical capital invested and effectively forecasted the allocation of future projects as per the latest pricing regulations set by the Department of Treasury and Finance (DTF).

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.
- Cooperated with multiple departments and team leaders to provide 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 from 1 hour to 20 minutes.
- Compiled, maintained and visualised data containing critical sustainability indicators for studying the effect of the manufacturing plant on the environment.
- Worked closely with R&D, Quality control and Automation department for resolving process and product defects through data driven studies.
- Performed root cause analysis and suggested corrective actions for major product defects.
- 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.

EDUCATION

Master of Business Analytics (WAM: 85.9 %) **Completion: 2024**
Monash University, Australia
- *School of Business and Econometrics*

Master of Technology (CGPA: 9.42/10) **2021**
Indian Institute of Technology, Indore
- *Metallurgy Engineering*

Bachelor of Technology (CGPA: 7.87/10) **2018**
Manipal Institute of Technology, Karnataka
- *Mechanical Engineering*

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

List of achievements

- Adjudged as the winner by National Australia Bank for my analysis on the waste disposal issue faced in Australia at the Annual Datathon in Monash University.
- 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.
- Conferred the best research poster presentation award for my publication on solid-state welding processes by the Indian Institute of Metals.
- Awarded the merit scholarship award for my performance in school year 10 and 12 by the Government of India.

List of publications

- Optimised machine learning classification model to detect void formations in friction stir welding
- Numerically modelled study of the plunge stage in friction stir spot welding using multi-tiered mesh partitions
- Numerical Simulation of Friction Stir Spot Welding of Aluminium-6061 and Magnesium AZ-31B

COMMUNITY INVOLVEMENT

Business Analyst Consultant, Global Victoria Intellect Program, Practera **3/2023-6/2023**
- Selected as a Business Analyst student consultant to perform secondary research for the Melbourne-based organisation, Delta-V Experts.
- Delivered in-depth market research analysis, facilitating strategic decision-making and enhancing market understanding.

Panel representative, Academic integrity and ethics, Monash University **2023-Present**
- Nominated as a panel representative to provide a student perspective during the academic integrity investigation of students.