

Mayaz Rakib

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SUMMARY

A pragmatic and detail-oriented professional with a strong background in data analytics, mathematics, quantitative finance and econometrics. Eager to leverage analytical skills to solve complex problems.

WORK EXPERIENCE

Aquila Capital

March 2021 – May 2025

Data Analyst (*Full-Time, Remote*)

4 years

- Built and maintained project-level cash flows models (revenue projections, capex and opex trends, debt service profiles, DCF) and tracked multiple KPIs (levered/unlevered IRR, NPV at WACC hurdle rates, DSCR on both projected and actual cash flows).
- Performed detailed sensitivity and variance analyses on 30+ investment models, quantifying impact of key assumptions (changes in capex, changes in energy yield for solar/renewable energy portfolios, changes in pricing) on IRR and NPV, comparing forecast variance to actual results.
- Performed commercial and technical due diligence, including reviewing legal documents (PPA, O&M agreement, EPC contracts) working with external advisors (tax, legal, consulting, ESG).
- Designed and developed data validation checks on 15+ key financial metrics (net exposure, leverage ratio, etc.), reducing model error rates by 9%.
- Developed and maintained 40+ SQL queries for ad hoc data requests, supporting investment decisions derived from asset performance metrics, market/transactional data and risk exposure data.
- Used Python and associated libraries (pandas, numpy, matplotlib, scikit-learn) to preprocess and clean large datasets (500,000+ rows each), ensuring at least 96% data integrity.
- Developed automated dashboards using Power BI and SQL to reduce manual reporting time by ~5 hours/week and present portfolio metrics to senior analysts and PMs in real-time.

EDUCATION

University of New South Wales

Bachelor of Computer Science

- UNSW Computer Science Society Mentor (educational seminars, course workshops, etc.)
- UNSW Artificial Intelligence Society Director (large-scale team projects, marketing campaigns, etc.)
- Distinction in COMP3311 (Database Systems), COMP6991 (Programming w/ Rust), etc.

HONOURS & AWARDS

- IBM Data Analyst Professional Certificate
- 2nd Worldwide for International Zero Robotics Competition
- 3rd for UNSW Cupcake Programming Competition
- Australian Mathematics Competition (AMC) High Distinction (2 years)

PROJECTS

hlibc (<https://github.com/hlibc/hlibc/blob/master/LICENSE>)

- Reimplementation of C standard library for purpose of understanding low-level systems architecture.
- Gained comprehensive knowledge of data structures and algorithms e.g. caching, concurrency, complexity analysis.