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**

Risk Data Analyst *(Full-Time, Remote)* *4 years*

- Used VaR/CVaR models to calculate expected losses across 20+ confidence levels and time horizons
- Assisted in analysing trade execution data for 1,000+ transactions per week, helping identify cost-saving opportunities.
- Collaborated with quantitative analysts to assist in building predictive models estimating asset volatility, contributing to a 12% reduction in unexpected drawdowns that year.
- Developed and maintained 40+ SQL queries for ad hoc data requests, supporting investment decisions totalling over US$15 million in value.
- Designed and developed data validation checks on 15+ key financial metrics (net exposure, leverage ratio, etc.), reducing model error rates by 9%.
- Used Python and associated libraries (pandas, numpy) to preprocess and clean large datasets (500,000+ rows each), ensuring 96% data integrity.
- Prepared monthly risk management and financial reports for senior portfolio managers.
- Developed automated dashboards using Power BI and SQL to reduce manual reporting time and present risk and portfolio metrics visually to senior analysts 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
- Implemented string (e.g. strlen, strcpy), search (e.g. qsort, bsearch) and time (e.g. clock) functions