

Data Scientist

Role Description

The Data Scientist contributes to building and developing the organization's quantitative capabilities and supports the investment, risk and macroeconomics teams by developing and implementing financial ML models, performing quantitative analyses and building trading algorithms.

Responsibilities

QUAAF Data Scientists are responsible for modeling complex quantitative finance problems, deriving insights, building trading algos and communicating results. As Data Scientists gain experience, they are expected to take on leadership roles in projects, suggesting and implementing new initiatives, coordinating teams and leading the development and growth of QUAAF's quantitative operations.

Desired Qualifications

Advanced Analytical Proficiency: Data Scientists typically have intermediate-to-advanced experience or education in computer science, engineering, statistics or related fields. They will work closely with domain experts in any area of Investments/Operations/Macro/Risk, to develop quantitative strategies, ML models and trading algorithms. Expertise in Python, Scikit-learn/TensorFlow and computational modelling highly preferred.

Passionate and Willing to Learn: Data Scientists will consistently be working on sophisticated models and performing quantitative analyses that require a considerable understanding of financial markets, instruments and techniques. A strong preliminary knowledge of finance is not required however a strong interest and a desire to learn is essential.

Driven and Self Motivated: Data Scientists will continually touch base with leadership to define their role and developmental roadmap within QUAAF. As they gain experience and develop technically, they will be expected to develop new quantitative strategies, techniques and technologies tailored to their own personal interests and take on leadership roles within the organization.

Analytics & BI Developer (ABD)

Role Description

The analytics and business intelligence developer maintains strong relationships with business partners in order to provide analytical and technical support for analytics and BI activities. The developer builds the company's analytics and BI capabilities while also ensuring distribution and delivery of high-quality analytics solutions and BI reports.

Responsibilities

The Analytics & BI Developer develops reports, dashboards and interactive visualizations, and work with data warehouses, data integration and data modelling to support business decisions, leveraging data to gain key insights into business and investment opportunities. As Developers accumulate experience, they are expected to take on leadership roles in projects, suggesting and implementing new initiatives and coordinating a team.

Desired Qualifications

Analytical proficiency: Developers must have a foundational understanding of statistical analysis and use these skills to support specific business areas. They either are or work closely with domain experts in any area of Investments/Operations/Macro/Risk, to apply insights to business processes or functions.

Organized: The ABD must time manage effectively and work under pressure to handle competing priorities and tight deadlines, as well as be adaptable to change. There will be direction to follow with plenty of opportunity to define said direction.

Passionate and willing to learn: The ABD will consistently touch base with leadership to define their role and developmental roadmap within QUAAF. This means the ability to specialize and combine topics of data and Analytics with any area of QUAAF that is of interest to the candidate. No extensive background in coding is required, however, a demonstrated passion to learning about the applications of data analytics in Finance, and the drive to contribute to the overall mandate of QUAAF is essential.

Submit a resume and 3 min max video telling us about your unique skills and why you think you are a good fit for QUAAF to quaaf@queensu.ca

Data Engineer

Role Description

The Data Engineer contributes to building and developing the organization's data infrastructure and supports the investment, risk and research teams by developing, implementing and maintaining new quantitative tools, proprietary python packages, automated data pipelines and algorithmic investment processes.

Responsibilities

QUAAF Data Engineers are responsible for developing and maintaining complex data engineering systems. They are expected to consult with multiple departments within QUAAF, identify issues, and develop technical solutions suitable to stakeholder needs. As Data Engineers gain experience, they are expected to take on leadership roles in projects, suggesting and implementing new initiatives, coordinating teams and leading the enhancement of QUAAF's technical capabilities.

Desired Qualifications

Advanced Technical Proficiency: Data Engineers typically have intermediate-to-advanced experience or education in computer science, engineering or similar fields. They will work closely with domain experts in any area of Investments/Operations/Macro/Risk, to apply technical skills to improving business processes or functions. Expertise in Python, HTML/CSS and Web Scraping highly preferred.

Organized: Data Engineers must time manage effectively and work under pressure to handle competing priorities and tight deadlines, as well as be adaptable to change. There will be direction to follow with plenty of opportunity to define said direction as they gain experience within the organization.

Passionate and Willing to Learn: Data Engineers will develop systems and tools designed to benefit the entire organization. A strong preliminary knowledge of finance is not needed however a strong interest in finance and a desire to learn is essential. As Data Engineers will work on a variety of projects designed to improve day-to-day operations of various teams across the organization, they will have considerable opportunities to learn the ins and outs of finance and be provided with a fantastic venue for demonstrating and enhancing their technical skills.

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