Troy Mazerolle

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Data Scientist with a background in statistical and machine learning techniques, including NLP and Generative AI seeking a co-op opportunity from May 2024 to August 2024

SUMMARY OF QUALIFICATIONS

- Obtained a Bachelor of Economics and Mathematics; currently enrolled in the AI and Machine Learning Graduate Certificate program.
- Strong analytical, problem-solving, and programming skills in Python and R.
- Proficient in SQL, database technologies, and data exploration.
- Time series analysis, including financial modeling, portfolio optimization forecasting, ARCH/GARCH models, multivariate time series, and non-stationary models.
- Machine learning techniques: supervised, unsupervised, and reinforcement learning, text and sentiment analysis, neural networks, and bagging/boosting methods.
- Governance and ML product development.
- Data visualization tools (matplotlib, seaborn, ggplot2).
- Experimental design, statistical hypothesis testing.
- Demonstrated excellent communication and interpersonal skills serving as a Board President in a non-profit housing co-operative.

EDUCATION

Bachelor of Economics, Minor in Mathematics   Sep 2017 - Apr 2022
University of Waterloo, Waterloo

- Specialization in Econometrics
- 84% grade average among economics courses
- 80% grade average among statistics and econometrics courses

Artificial Intelligence and Machine Learning Graduate Certificate   Sep 2023 - Present
Conestoga College, Waterloo

- 93% grade average
- Expected graduation: end of August 2024

PROFESSIONAL EXPERIENCE

Data Analyst   May 2022 – August 2023
Fusion Analytics • Waterloo, Ontario

- Collaborating with stakeholders to identify and address business problems.
- Leveraged survey data to conduct in-depth analysis of retailer performance metrics, providing valuable insights into market trends and consumer behavior.
- Spearheaded the creation of market cannibalization models, evaluating the impact of adding or removing retailers on sister locations, optimizing decision-making processes.
- Evaluated the effectiveness of retailer campaigns by meticulously analyzing performance metrics, contributing to data-driven strategies for future advertising initiatives.
- Transformed Fusion's ad performance reporting structure by migrating calculations from Excel to R, automating result uploads into Snowflake, and streamlining data presentation through preformatted slide templates in Yellowfin, enhancing efficiency and accuracy in reporting.

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- Performing data analysis, visualization, and communication to stakeholders.
- Collaborating with cross-functional teams on data-driven solutions.
- Identifying and evaluating new data sources for improved modeling.
- Developing and implementing processes for data preparation, model deployment.
- Staying updated on trends in data science and ML.
- Effectively communicating complex analytical concepts to non-technical stakeholders.
- Maintaining comprehensive documentation of analytical work.

VOLUNTEER EXPERIENCE

Director   **October 2017 – Present**
Waterloo Co-operative Residence Inc. • Waterloo, Ontario

President   Nov 2023 - Present
- Performed all legal duties of the President as defined by the CCA and Bylaws
- Prepared and presented written reports on President's activities at monthly Board Meetings
- Organized board training sessions for new Directors and exit interviews for departing Directors.
- Facilitated and document monthly Board Meeting evaluations.
- Ensured meetings followed Robert's Rules of Order
- Oversaw proper election procedures for Board members.
- Recruited candidates for vacant Vice-President and Corporate Secretary positions.
- Arranged training sessions for the Vice-President.
- Maintained and update the President's handbook, presenting revisions to the board for adoption.
- Set agendas for Board Meetings, board retreats, and General Meetings in advance.
- Managed Appointment Practices and Procedures

Corporate Secretary   October 2021 – November 2023
- Performed the legal duties of Corporate Secretary as defined by the CCA and Bylaws
- Ensured approval of minutes for Board of Directors' meetings and General Meetings
- Maintained current hard and soft copies of corporate records.
- Collected and filed confidentiality statements and Code of Conduct of Directors
- Distributed board packages for regularly scheduled Board Meetings
- Distributed General Meeting packages for regularly scheduled General Meetings
- Maintain the Corporate Secretary handbook and present any revisions to the Board for adoption.

Vice-President   October 2018 – October 2021
- Performed the legal duties of Vice-President as defined by the CCA and Bylaws
- Performed the duties of the President when the President was unable to perform the role