Troy Mazerolle

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Waterloo, Ontario
https://tjmazerolle.github.io/Portfolio/

OBJECTIVE

Passionate and experienced Data Scientist with a strong background in statistical and machine learning techniques, including NLP, seeking to contribute expertise in building and fine-tuning machine learning models, conducting insightful data analysis, and collaborating with business stakeholders to drive informed decision-making in a dynamic and growth-focused environment.

EDUCATION

Graduate Certificate of Artificial Intelligence and Machine Learning   Sep 2023 - Apr 2024
Conestoga College, Waterloo

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

ANALYTICAL AND TECHNICAL SKILLS

- Strong analytical, problem-solving, and programming skills in Python and R.
- Proficient in SQL, database technologies, and data exploration.
- Expertise in regression analysis, logit modeling, non-parametric estimation, and quantile regression.
- Time series analysis, including financial modeling, portfolio optimization forecasting, ARCH/GARCH models, multivariate time series, and non-stationary models.
- Machine learning techniques: supervised and unsupervised learning, text analysis, regression trees, penalized regression, classification random forests, neural networks, and bagging/boosting methods.
- Governance and ML product development.
- Azure ML, deep learning, NLP/LLM, Generative AI.
- Data visualization tools (matplotlib, seaborn, ggplot2).
- Experimental design, statistical hypothesis testing.

CORE COMPETENCIES

- Collaborating with stakeholders to identify and address business problems.
- Building and maintaining statistical and ML products (including NLP).
- 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.

WORK EXPERIENCE

Data Analyst   May 2022 – August 2023
Fusion Analytics • Waterloo, Ontario
- Departed the job willingly with a commendable reputation for success. Positive references available.
- 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.

Data Entry   Sep 2020 - Dec 2020
Erb Transports • Baden, Ontario
- Enhanced operational efficiency by updating the TruckMate system to accurately track the entry and exit of trucks at the terminal, ensuring real-time visibility into logistics operations.
- Improved logistics tracking and inventory management by updating the TruckMate system to promptly reflect the loading and unloading status of freight on trucks, optimizing overall supply chain operations.

Document Management Associate   Dec 2019 - Jun 2020
Allianz Global Assistance
- Demonstrated efficiency and attention to detail by meticulously reviewing and screening diverse claims documentation, including claim forms and authorization packages, meeting stringent turnaround time requirements.
- Ensured precision in financial processes by accurately and promptly entering invoices into the system, contributing to streamlined and error-free financial transactions.
- Consistently met and maintained performance objectives on a monthly basis, showcasing commitment and reliability in achieving professional goals.
- Played a key role in data management by entering and updating information from invoices and documents into computer systems and databases, facilitating accurate and up-to-date record-keeping.
- Provided valuable clerical and data entry support to the Claims Department, contributing to the overall efficiency and organization of departmental operations.

Community Development Worker   Jun 2018 - Aug 2018
Beechwood Co-operative Homes • Waterloo, Ontario
- Coordinated engaging summer activities for community children, fostering inclusivity and community spirit.
- Designed visually appealing promotional materials, increasing awareness and participation in community events.
- Contributed actively to various events, including arts and crafts days, bake sales, and Canada Day celebrations.
- Supported the organization of summer camps, movie nights, and game nights, enhancing community engagement.
- Raised awareness on critical issues like energy conservation and safety, demonstrating a commitment to community well-being.
- Advocated for health by promoting nutrition and healthy living practices within the community.
- Managed administrative tasks efficiently, ensuring the smooth delivery of materials and maintaining organized community spaces.
- Assisted in office management tasks, including the organization of filing systems, contributing to an efficient work environment.