METROLINX

Data Scientist III (104594)

Employee Status:	Regular
Bargaining Unit:	Non-Union
Pay Range:	$102,831 - $142,736
Location:	10 Bay Street
Closing Date:	19-Feb-2023

Metrolinx is connecting communities across the Greater Golden Horseshoe. Metrolinx operates GO Transit and UP Express, as well as the PRESTO fare payment system. We are also building new and improved rapid transit, including GO Expansion, Light Rail Transit routes, and major expansions to Toronto's subway system, to get people where they need to go, better, faster and easier. Metrolinx is an agency of the Government of Ontario.

We embody our values in everything that we do. We Serve with Passion, Think Forward, and Play as a Team. If you can relate, we want to hear from you!

Our Customer Insights Team is seeking a Data Scientist III to join the team. Reporting to the Manager, Promotion and Non-Fare Revenue Analytics, this individual will have oversight and accountability for all data driven projects for the department, accountable for the statistical integrity and accuracy of data/data projects, and will ensure data driven projects are aligned with organizational goals.

What will I be doing?

- Predicting and measuring the impact of events and campaign on Revenue and Ridership
- Forecasting the consumer's transportation preference based on internal and external data sources.
- Employing advance Machine Learning techniques for predictive and prescriptive transportation and revenue model
- Using supervised and unsupervised learning to understand and predict consumer behavior.
- Develops automated analytical process and complex analytical dashboards to respond to business problems
- Translates business requirements into quick prototypes and enables the development of big data capabilities, frameworks and governance processes in the department/division and across the enterprise at large.
- Provides advanced expertise to the data science team and advances the adoption of analytics, tools and techniques across the enterprise.
- Responsible for ensuring data driven projects meet desired outcomes and are aligned with organizational goals.
- Selects and employs advanced statistical procedures to obtain actionable insights.
- Identifies business opportunities for performance improvement using algorithmic, statistical, visualization and mining techniques and models complex discovering insights.
- Oversee data collection mechanisms and how they fit into data architecture, partnering with internal and external stakeholders to ensure quality and accuracy.
- Briefs and advises senior management on a range of issues, applies advanced analytics, takes highly complex messages, outputs, and algorithms, and simplifies them into actionable insights.
- Provides direction and leads analysis that identifies customer acquisition, retention and loyalty opportunities to contribute to achieving strategic objectives, targets and KPIs.
- Provides subject matter expertise and supports relevant stakeholders through quantitative analytics, and the application of appropriate advanced analytics for the enterprise's key initiatives.
- Develops and maintains effective partnerships/relationships with business leaders to understand

their business objectives and to determine how data can be used to achieve their business goals and objectives.

What skills & qualifications do I need?

- Completion of a master's degree or Bachelor's Degree in Statistics, Applied Math, Engineering, Computer Science, or a related discipline – or a combination of education, training, and experience deemed equivalent
- Minimum eight (8) years of experience working in a senior data science capacity within a large-scale complex business setting, including experience working on strategy or full-life cycle data science, working with data mining tools, predictive modeling, deep learning algorithms, large data sets, unstructured data, etc.
- Demonstrated experience leading large scale, complex data driven projects and mentoring and overseeing the work of data scientists.
- In depth knowledge of the main concepts and techniques of data science to provide leadership and advanced subject matter expertise in statistical and mathematical concepts, and apply/inspire the adoption of advanced data science and analytics across the enterprise.
- Expert knowledge and working experience with SQL, Python/R, SQL, PySpark / SparkR, ETL, Tableau, Power BI with distributed databases and complex data sets
- Expertise in the application of customer segmentation, profiling, clustering and basket analysis and knowledge of detailed analysis (modelling with machine learning) techniques, methodologies and processes.
- Statistical analysis (hypothesis testing, A/B Test analysis, etc.).
- Knowledge of advanced and predictive and prescriptive analytics to lead the design, development and implementation of data management systems and statistical modeling (understanding the future / forecasting / advice on possible outcomes).
- Expert knowledge of applied machine learning modeling experience, including expertise building and applying time-series models to anticipate, predict and prescribe solutions that mitigate/eliminate risks/problems before they materialize.
- Project management, leadership skills and organizational skills to provide oversight to and manage multiple, simultaneous data driven projects and data scientists.
- Experienced and proficient in leveraging Microsoft Azure for data handling, analysis and visualization
- Deep understanding of ETL (Extract, Transform and Load) pipelines for scaling up

Don't Meet Every Requirement?

If you're excited about working with Metrolinx but your past experience doesn't quite align with every qualification of this posting, we encourage you to apply. You just might be the right candidate for this or other roles. We are always looking for great talent to join our team.

We invite all interested individuals to apply and encourage applications from members of equity-deserving communities, including those who identify as Indigenous, Black, racialized, women, people with disabilities, and people with diverse gender identities, expressions and sexual orientations.

Accommodation:

We value the unique skills and experiences each person brings to Metrolinx and are committed to creating and maintaining an inclusive and accessible environment.   We are committed to the requirements of the Accessibility for Ontarians with Disabilities Act so if you require accommodation during the hiring process, please let our Recruitment team know by contacting us at: 416-202-5601 or email hr.recruitment@metrolinx.com.

Application Process:

All applicants must be legally entitled to work in Canada. Metrolinx will be using email to communicate with you for all job competitions. It is your responsibility to include an updated email address that is checked daily and accepts emails from unknown users. As we send time sensitive correspondence, we recommend that you check your email regularly. If no response is received, we will assume you are no longer interested in pursuing the opportunity. Please be advised that a Criminal Record Check may be required of the successful candidate. Should it be determined that any background information provided be misleading, inaccurate or incorrect, Metrolinx reserves the right to discontinue with the consideration of your application.

We thank all applicants for their interest, however, only those selected for further consideration will be contacted.

AN EQUAL OPPORTUNITY EMPLOYER

#LI-SC1