

Shervin Khazaeli

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SUMMARY

Senior Data Scientist with extensive expertise in designing and implementing advanced machine learning solutions, driving over \$60M in cost savings. Proven leader of multifunctional teams, fostering innovation and mentoring emerging data scientists. Skilled at collaborating closely with stakeholders to ensure high-quality project delivery and achieving strategic objectives.

EXPERIENCE

- **Trinnex (CDM Smith)** Canada/USA
Senior Data Scientist (Full-time) 2022 - Present
 - **Analytics development:** Designs and implements advanced Machine Learning (ML)-based solutions, focusing on predicting material compositions of water service lines, identifying anomalies, and forecasting break occurrences. Deploys and monitors end-to-end ML pipelines ensuring seamless integration and optimal performance in real-world applications. The predictive models and optimized inspections help clients manage their LCRR/LCRI programs and comply with LCRR/LCRI Regulations.
 - **Leadership:** Leads a multifunctional team of developers in the creation of innovative web-based applications aimed at predicting water main breaks. Collaborates with cross-functional teams to address deployment related challenges and enhance the operational efficiency of ML solutions. Mentors data scientist for personal and career development.
 - **Strategic innovation:** Fosters a collaborative environment with stakeholders to identify opportunities for the implementation of ML-driven solutions, contributing to the development of cutting-edge projects and ensures the delivery of high-quality products.
- **Polytechnique Montréal** Canada
Research Assistant (Full-time) 2018 - 2022
 - **Framework development:** Designed & implemented an autonomous anomaly detection framework for civil infrastructures.
 - **Algorithm/Software development:** Improved and developed Bayesian dynamic linear models and coupled them with reinforcement learning for anomaly detection
 - **Communication:** Periodic meetings and preparation of the reports for Ponts Jacques Cartier et Champlain incorporée
- **Smart City X** Canada
President & Co-founder 2017 - 2018
 - **Smart Systems:** Designed and led events enhancing the application of the smart systems and sensors for monitoring of infrastructures, water resources, and public health.
- **Sensequake Inc.** Canada
Consultant (Part-time, Contractual) 2016 - 2017
 - **Data acquisition & analysis, and report preparation:** Planned & installed sensors, and acquired high quality sensory data for data analysis; Built data-driven models from sensory data for seismic assessment of civil structures; preparing comprehensive assessment reports for the clients.
 - **Process automation:** Automated various data acquisition and analysis procedures.
- **Concordia University** Canada
Research Assistant (Full-time) 2014 - 2017
 - **Cloud Architecture development:** Designed & implemented cloud-based solution for structural health monitoring using AWS.
 - **Framework development:** Developed framework for damage detection and identification using data-driven models.
 - **Instructor:** Designed & offered the course “Probabilistic Graphical Modeling” to build causality models in various disciplines.
- **Udemy Inc.** Remote
Instructor
 - **Presentation Design MasterClass | LaTeX:** Designed & offered the course to mastery the art of the presentation using LaTeX.

EDUCATION

- **Polytechnique Montréal** Canada
PhD- Civil Engineering (Artificial Intelligence)
Keyword: Reinforcement Learning, Imitation learning, Decision Making, Probability, Bayesian Model