

# Konstantin Volodin

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## PROFESSIONAL EXPERIENCE

### Immigration, Refugees and Citizenship Canada

Ottawa, Canada

Data Scientist, *Advanced Analytics Solution Centre*

Oct 2022 – Present

- Revamped legacy classification models with modern software, enhancing scalability, performance, and automation. By productionalizing an annual cost savings of over \$100,000, along with a 30-hour weekly reduction in employee time is possible.
- Partnered with clients to define indicators based on business rules, boosting model performance while ensuring legal compliance.
- Implemented KPIs to track model performance and drift, evaluating models with a total of approx. 360k data points per week.

Data Analyst, *Anti Racism Task Force*

Dec 2020 – Oct 2022

- Analyzed HR data and conducted a department-wide survey informing the IRCC's hiring and AR strategy.
- Designed the methodology and prepared quarterly reports for Minister's Office, showcasing AR activities performance.
- Created and supported delivery of informative presentations at EX forums, gaining executive support for Anti-Racism initiatives and identifying areas for improvement.

Project Officer, *Employee Experience Team*

Oct 2020 – Dec 2020

- Streamlined the process of connecting students to recruiters by designing a database, user interface for querying data, and a form allowing students to populate the database leading to reduced workload of hiring managers.

### McGill University

Montreal, Canada

Research Assistant, *Desautels School of Business*

March 2023 – August 2023

- Developed a [website](#) on AWS to show glyphosate research, raise awareness, and be a reference for various speeches
- Collaborated with a team of students to plan and prepare three community projects for a larger team, streamlining the project initiation process and ensuring successful execution.
- Created a [website](#) on GCP featuring a robust backend architecture and engaging front-end interface, facilitating the reporting of animal accidents while promoting sustainability.

### Ottawa Hospital Research Institute

Ottawa, Canada

Research Assistant

Feb 2020 – Aug 2020

- Analyzed patient-level and scheduling datasets to effectively utilize them for optimization and simulation models.
- Applied operations research techniques to enhance patient scheduling, block scheduling, and capacity planning.
- Created web applications to showcase decision support tools, to gather support for project transition to production.

### University of Ottawa

Ottawa, Canada

Research Assistant, *Telfer School of Management*

May 2019 – Present

- Developed a Markov Decision Process model for surgery scheduling, reducing wait times for high-priority patients.
- Conducted simulation experiments to evaluate hypotheses and support a master's student thesis.
- Conducted research on non-linear approximation for approximate dynamic programming.

## EDUCATION

**McGill University**, Desautels Faculty of Management

Montreal, Canada

Master of Management in Analytics

July 2022 – Aug 2023

**University of Ottawa**, Telfer School of Management

Ottawa, Canada

Honours Bachelor of Commerce, Concentration in Finance

Sept 2016 – April 2020

## TECHNICAL SKILLS

- **Key Competencies:** Data Science, Data Engineering, Decision Sciences, Software Development, ETL, ELT, CI/CD
- **Languages & Tools:** SQL/NoSQL, Python, AWS/GCP, Databricks, PySpark, PyTorch, Power BI, React, Django, Docker, Git
- **Certifications:** AWS Certified Cloud Practitioner

## ANALYTICS PROJECT EXPERIENCE

### Academic Consulting Project

Montreal, Canada

Data Scientist, *CAE Inc.*

Oct 2022 – April 2023

- Developed methodology for demand forecasting, supply chain optimization, and KPIs to address stockout and overstocking issues with thousands of distinct key components.

### Professional Analytics Project

Ottawa, Canada

Research Assistant, *Telfer School of Management*

May 2019 – February 2020

- Developed a Telfer schedule optimization model reducing man-hours from weeks to a few hours of computer time.
- Designed and implemented a user-friendly web interface to facilitate the deployment of the scheduling tool.