**Konstantin Volodin**

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**PROFESSIONAL EXPERIENCE**

**Immigration, Refugees and Citizenship Canada**Ottawa, Canada

Data Scientist, *Advanced Analytics Solution Centre (done)* 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 a classification model with appox. 10,000 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](https://www.science-of-glyphosate.com/) 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](https://www.mono-sos.com/) 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.

**~~Humanitarian Consulting Project~~** ~~Montreal, Canada~~

~~Data Engineer,~~ *~~Reserva Conchal~~* ~~March 2023 – July 2023~~

* ~~Developed Python-based data infrastructure to collect and store accident information on howler monkeys.~~
* ~~Created a facility location model to minimize howler monkey fatalities by optimizing the placement of bridges.~~