Konstantin Volodin
Data Scientist

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Skills

Competencies	Data Science & Engineering, Decision Sciences, Software Development
Tech Stack	**Languages:** Python, SQL, R
	Data/ML: Power BI, PySpark, PyTorch, Plotly, Gurobi
	Platforms: Git, AWS, Docker, DataBricks

Experience

Data Scientist, Advanced Analytics Solutions Center   Oct 2022 — Present (Full-time)
Immigration, Refugees and Citizenship Canada   *Remote / Ottawa, Canada*

- Work in a cross-functional team with Software Engineers, Product Managers, and Business Analysts to build data-driven decision-support tools used in daily operations.
- Lead engineer for the Temporary Resident Visa predictive platform, the highest-volume file classification system on our team, scoring approximately 150,000 files per week.
- Contributed to migrating an SPSS monolith into a production PySpark pipeline; refactored 10,000 LOC of Python and improved end-to-end performance by 15%.
- Design and maintain a 30+ bin classification system that consolidates 40+ SQL views and powers daily decisions for hundreds of IRCC officers.
- Own and produce 10+ weekly operational reports, manage downstream data contracts, and deliver ad-hoc analyses informing operational KPIs and business decisions.

Data Analyst, Anti-Racism Task Force   Dec 2020 — Oct 2022 (Full-time)
Immigration, Refugees and Citizenship Canada   *Ottawa, Canada*

- Served as a technical lead for an Anti-Racism Task Force team; set analytics priorities and drove deliverables.
- Ran a department survey and HR analyses that uncovered hiring inequities and informed policy decisions.
- Prepared executive-ready briefings, converting analyses into actionable insights that secured leadership buy-in.

Professional Research

Ottawa Hospital Research Institute   Feb 2020 — Aug 2020 (Full-time)

- Analyzed patient-level and scheduling datasets to prepare inputs for optimization and simulation models.
- Applied operations research techniques to improve patient scheduling, block scheduling, and capacity planning.

McGill University   Mar 2023 — Aug 2023 (Part-time)

- Built and deployed two public-facing sites (AWS/GCP) for animal-accident management and glyphosate research.
- Animal-accident site tracks accidents and optimizes wildlife-crossing placement via a facility-location model.

University of Ottawa   May 2019 (Part-time)

- Developed a mixed-integer scheduling model with 100+ constraints (instructor preferences, room capacities) to generate a year-long timetable, cutting planning time from weeks to hours and improving fairness and utilization.
- Implemented a production web app (React + Django) enabling staff to run scheduling scenarios.

Education

Master of Management in Analytics, *McGill University, Desautels Faculty of Management*   Jul 2022 — Aug 2023
Bachelor of Commerce (Finance), *University of Ottawa, Telfer School of Management*   Sep 2016 — Apr 2020

About me

- **Languages**: English (fluent); Russian (fluent); French (B1).
- Active rock climber, hoping to progress toward multi-pitch outdoor routes and challenging boulder problems.
- Avid fantasy reader of both classic and contemporary epics.