volodin.kostia@gmail.com +1-438-370-2046 Montréal, QC, Canada

Konstantin Volodin

Data Scientist

konstantin-volodin.github.io github.com/Konstantin-Volodin linkedin.com/konstantin-volodin

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.
- Migrated 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.

Research Assistant

Feb 2020 — Aug 2020 (Full-time)

Ottawa Hospital Research Institute

Ottawa, Canada

- 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.

Research Assistant

Mar 2023 — Aug 2023 (Part-time)

McGill University

Montreal, Canada

- 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.

Research Assistant

May 2019 (Part-time)

University of Ottawa

Ottawa, Canada

- Applied Markov Decision Process model for surgery scheduling to reduce wait times for high-priority patients.
- Conducted simulation experiments to evaluate hypotheses and support a master's student thesis.

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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

PROJECTS

Infinite DnD July 2025 — Present

Personal

- Developing an LLM-agent system using open-source models to run Dungeons & Dragons campaigns from user-defined configurations; supports fully automated play or mixed human/agent interaction.
- Architected modular LLM agents with scoped world knowledge to improve response accuracy and separation of
- Implemented persistent world state, enabling agent to create lasting consequences (quests, NPCs, events).
- Designed and implemented a React frontend to present narrative, visualize world state and agent logs, and capture user input.

Academic Consulting Project

Oct 2022 — Apr 2023 Montreal, Canada

CAE Inc.

- Developed a time-series forecasting pipeline to predict demand for thousands of aviation components, with automatic algorithm selection based on component characteristics and historical performance.
- Designed an inventory management policy balancing forecast uncertainty, lead times, and service-level targets to reduce stockouts and holding costs.
- · Communicated results in an executive report, translating technical findings into actionable procurement and operations recommendations.

Workload Allocation

May 2019 — Feb 2020

Telfer School of Management

Ottawa, Canada

- Designed and solved a mixed-integer optimization model to generate a full-year teaching schedule, decreasing planning time from weeks to hours and improving constraint satisfaction.
- Implemented a production web app (React frontend, Django backend) enabling staff to run scheduling scenarios.
- Enhanced the model by adding soft constraints for instructor preferences and room capacities, improving fairness and utilization.

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.
- Aspiring house dancer, practicing foundational footwork and freestyle.