Konstantin Volodin

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PROFESSIONAL EXPERIENCE

Immigration, Refugees and Citizenship Canada   Ottawa, Canada
Data Scientist, *Advanced Analytics Solution Centre*   Oct 2022 – Present
- Lead the development of new modules, oversaw bug fixing initiatives, and facilitated seamless client interactions for one of the largest models within our team, ensuring its optimal performance and alignment with strategic objectives.
- 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. 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.