

# ALINA YILDIR

📍 Edmonton, AB 📞 +1 613-700-4510 ✉️ [yildir.a.mdsa@gmail.com](mailto:yildir.a.mdsa@gmail.com) [in.ca.linkedin.com/in/yildiramdsa](https://ca.linkedin.com/in/yildiramdsa)

## PROFILE

Data Science and Analytics Specialist with expertise in developing end-to-end data workflows, including ETL pipelines, automated dashboards, forecasting models, and machine learning solutions. Skilled at delivering actionable insights that support strategic decisions across finance, government, healthcare, and technology.

## SUMMARY OF SKILLS

**Programming & Data Analysis:** Python (pandas, NumPy), SQL, data wrangling, data quality validation, exploratory analysis, feature engineering, statistical testing and inference, KPI development, financial data analysis  
**Data Visualization & BI Platforms:** Power BI, Power Automate, Tableau, D3.js, Matplotlib, Seaborn, report development, dashboard design, workflow automation, financial dashboards, executive scorecards  
**Machine Learning & Deep Learning:** scikit-learn, XGBoost, LightGBM, Prophet, TensorFlow, Keras, PyTorch, model development and validation, cross-validation, hyperparameter tuning, ensemble methods, forecasting, anomaly and risk detection models  
**MLOps & Cloud Infrastructure:** AWS S3, AWS SageMaker, Streamlit, Git, model deployment and tuning, rapid UI prototyping for ML workflows, version control  
**Thinking, Achievement & Relationship Competencies:** systems thinking, creative problem solving, agility, drive for results, develop networks, build collaborative environments, develop self and others

## EDUCATION

|   |      |
|---|------|
| <b>Master of Data Science and Analytics (Honours)</b> , University of Calgary                             | 2025 |
| <b>Certificate in Artificial Intelligence</b> , University of Toronto School of Continuing Studies        | 2024 |
| <b>Certificate in Data Science</b> , University of Toronto School of Continuing Studies                   | 2022 |
| <b>Ontario College Diploma (Honours) in Internet Applications and Web Development</b> , Algonquin College | 2019 |

**Portfolio:** [yildiramdsa.github.io](https://yildiramdsa.github.io) showcases academic data science and analytics projects with end-to-end workflows, including data preparation, statistical analysis, feature engineering, predictive modelling, and visualization to generate actionable insights.

## CERTIFICATIONS

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|---|------|
| Microsoft Certified: Power BI Data Analyst Associate, Microsoft | 2025 |
| Investment Foundations Certificate, CFA Institute               | 2025 |

## EMPLOYMENT EXPERIENCE

|   |                  |
|---|------------------|
| <b>Data Science Analyst</b><br>BGE Indoor Air Quality Solutions, Edmonton, Alberta  | May 2025–Present |
| <ul style="list-style-type: none"><li>Developed Power BI dashboards and reports for the finance department, integrating data from multiple sources and applying advanced DAX calculations to enable cross-functional reporting and support data-driven leadership decisions.</li><li>Automated data generation, extraction, and transformation using Power Automate, feeding dashboards for real-time financial analysis and actionable insights.</li><li>Published, scheduled, and maintained reports in shared Power BI workspaces, enabling timely insights and effective teamwork across departments.</li><li>Created a standardized Power BI JSON theme to accelerate development and maintain visual consistency across reports and dashboards.</li><li>Received the Be the Expert Award (2025) for excellence in data-driven reporting through developing Power BI dashboards, automating workflows, and standardizing reporting for efficiency and consistency.</li></ul> |                  |
| <b>Data Scientist &amp; Co-Founder</b><br>SnowyOwl Data, Edmonton, Alberta  | Oct 2025–Present |
| <ul style="list-style-type: none"><li>Built an app to extract and analyze PDF invoices, converting unstructured financial data into structured Excel sheets for reporting and analytics.</li></ul>  |                  |

- Leading the development of BeWell360, a holistic wellness tracker that applies data science and analytics to transform daily logs, including nutrition, fitness, sleep, body composition, professional development, and personal growth, into actionable insights for balanced living.

#### **Research Assistant (Machine Learning)**

May 2025–Jul 2025

University of Calgary, Calgary, Alberta

- Engineered end-to-end data preprocessing workflows in Python, transforming raw EEG signals into structured features via windowing, normalization, artifact rejection, and spectrogram generation.
- Leveraged transfer learning with a pre-trained ResNet-18 model, applying cross-validation, learning-rate scheduling, early stopping, and data augmentation to train a continuous AHI regression model.
- Validated model performance on held-out subjects, delivering accurate predictions and actionable insights for analytics.

#### **Web Publisher (Data Visualization)**

Sep 2020–Aug 2024

Health Canada, Ottawa, Ontario

- Developed custom AEM components using D3.js to ingest Health Canada datasets and render interactive charts and tables, enabling dynamic data exploration and actionable insights.
- Built and maintained WCAG 2.1 AA-compliant pages on [Canada.ca](https://canada.ca) in Adobe Experience Manager, ensuring accessible and user-friendly presentation of data-rich content.
- Recognized with two Assistant Deputy Ministers' Merit Awards (2023) for Collaboration and Service Excellence and for Contribution to the Improvement of the Health of Canadians.

#### **Web Developer (Programming & Data Analysis)**

Mar 2019–Sep 2019

OPIN, A Portage CyberTech Company, Ottawa, Ontario

- Developed Power BI dashboards from web-traffic exports to track monthly usage patterns and top pages, supporting data-driven marketing and UX decisions.
- Built and maintained WCAG 2.1 AA-compliant Drupal websites for clients, including [Holland Bloorview](#), [Hydro Ottawa](#), and [York Region DSB](#), improving usability and accessibility.
- Refactored and documented HTML, CSS, JavaScript, and PHP codebases, enhancing site performance, maintainability, and scalability.

#### **Doctoral Researcher (Data Analysis & Visualization)**

Nov 2013–Mar 2016

National Academy of Sciences of Ukraine, Kyiv, Ukraine

- Collected, validated, and structured experimental datasets for statistical modelling, applying rigorous data-quality checks to ensure accuracy and consistency.
- Produced analytical reports and data visualizations that informed research outcomes and supported peer-reviewed publications and patented innovations.
- Presented findings at international conferences, translating complex analyses into clear insights for technical and non-technical audiences.