

# ALINA YILDIR

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## 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

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

**Portfolio:** [yildiramds.github.io](https://yildiramds.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

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

## EMPLOYMENT EXPERIENCE

<b>Business Intelligence and Data Analytics Analyst</b> Government of Alberta, Edmonton, Alberta	Jan 2026–Present
<b>Data Scientist &amp; Co-Founder</b> SnowyOwl Data, Edmonton, Alberta	Oct 2025–Present
• Created an automated PDF invoice extraction system that transforms unstructured invoices into analysis-ready Excel datasets, reducing manual data entry and improving reporting accuracy. • 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.	May 2025–Jan 2026
<b>Data Science Analyst</b> BGE Indoor Air Quality Solutions, Edmonton, Alberta	May 2025–Jan 2026
• 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. • Automated data generation, extraction, and transformation using Power Automate, feeding dashboards for real-time financial analysis and actionable insights.	May 2025–Jan 2026

- Published, scheduled, and maintained reports in shared Power BI workspaces, enabling timely insights and effective teamwork across departments.
- Created a standardized Power BI JSON theme to accelerate development and maintain visual consistency across reports and dashboards.
- 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.

#### **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](#) 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.