ALINA YILDIR

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PROFILE

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

SUMMARY OF SKILLS

Programming & Data Analysis: Python (pandas, NumPy), SQL — data wrangling & quality assurance, exploratory analysis & feature engineering, statistical testing & inference
Data Visualization & BI Platforms: Power BI, Power Automate, Tableau, D3.js, Matplotlib, Seaborn — report development, dashboard design, automated workflows
Machine Learning & Deep Learning: scikit-learn, XGBoost, LightGBM, Prophet, TensorFlow/Keras, PyTorch — model training & validation, cross-validation, hyperparameter tuning, ensemble methods
MLOps & Cloud Infrastructure: AWS (S3, SageMaker), Streamlit, Git — model development & tuning, rapid prototyping of model UIs, code versioning & collaboration

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: yildiramdsa.github.io — selected academic projects demonstrating comprehensive data science and analytics skills, including end-to-end workflows in data preparation, statistical analysis, predictive modeling, machine learning, and visualization to generate actionable insights.

EMPLOYMENT EXPERIENCE

Data Scientist & Co-Founder · Oct 2025–Present
SnowyOwl Data, Edmonton, Alberta
- Leading the development of BeWell360, a holistic wellness tracker that uses data science and analytics to deliver insights on nutrition, sleep, fitness, and personal development.
- Designing wellness challenges with Canada-inspired themes to promote healthier lifestyles and boost user engagement.
- Leveraging data-driven insights to improve user experience and encourage consistent participation.

Data Science Analyst · May 2025–Present
BGE Indoor Air Quality Solutions, Edmonton, Alberta
- Built Power BI reports and dashboards across Finance, HR, Operations, and IT, enabling cross-functional reporting and data-driven leadership decisions.
- Created a company-wide Power BI JSON theme to enforce visual consistency and accelerate development.
- Automated reporting pipelines from Access databases using Power BI and Power Automate, streamlining workflows and improving operational efficiency.
- Designed and deployed a reporting solution for the Diamond Rewards program with Power BI, Power Automate, SharePoint, and Forms, providing real-time insights on participation, redemptions, and inventory.

Research Assistant (Machine Learning) · May 2025–Jul 2025
University of Calgary, Calgary, Alberta
- Engineered end-to-end EEG preprocessing workflows in PyTorch, automating 30s windowing, artifact rejection, cohort normalization, and STFT spectrogram extraction.
- Leveraged transfer learning on an ImageNet-pretrained ResNet-18 with k-fold cross-validation, learning-rate scheduling, early stopping, and data augmentation to train a continuous AHI regression model.
- Validated model performance on held-out subjects to ensure reliable AHI estimation for downstream analytics.
- Details: https://resnet-18-based-eeg-ahi-regression-pipeline.streamlit.app

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 presentation of data-rich content.

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, enabling data-driven decisions around marketing and UX prioritization.
- Built and maintained WCAG 2.1 AA-compliant Drupal websites for clients such as 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, enforcing rigorous data-quality checks to ensure accuracy and consistency.
- Produced analytical reports and data visualizations that drove insights, supporting peer-reviewed publications and patented innovations.
- Presented findings at international conferences, translating complex analyses into clear, actionable insights for diverse audiences.

AWARDS

Diamond Rewards — Be the Expert (2025), BGE Indoor Air Quality Solutions
Assistant Deputy Minister's Merit Award — Collaboration & Service Excellence (2023), Health Canada
Assistant Deputy Minister's Merit Award — Contribution to the Improvement of the Health of Canadians (2023), Health Canada