

## ALINA YILDIR

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### SUMMARY OF SKILLS

Programming: **Python, SQL**; Visualization: **matplotlib, seaborn, Tableau, Power BI**; Modelling: **scikit-learn, XGBoost, TensorFlow, Keras**; Tools: **Git, AWS**

### RECENT EDUCATION

**Master of Data Science and Analytics (Hons)**, University of Calgary 2025  
**Ontario College Diploma (Hons) in Internet Applications and Web Development**, Algonquin College of Applied Arts and Technology 2019

### RECENT CERTIFICATES

**Certificate in Artificial Intelligence**, University of Toronto SCS 2024  
**Certificate in Data Science**, University of Toronto SCS 2022

### EMPLOYMENT EXPERIENCE

**Data Science Analyst** May 2025 – Present  
BGE Indoor Air Quality Solutions, Edmonton, Alberta

- Aggregated, blended, and analyzed data from ERP, CRM, service, and testing platforms to uncover operational and customer insights and drive efficiency improvements
- Built and optimized dashboards for real-time monitoring of key performance and financial metrics, enabling data-driven decision support
- Developed, validated, and prototyped forecasting and AI/ML models for demand planning, service scheduling, and predictive automation in collaboration with Sales

**Deep Learning Research Assistant** May 2025 – Present  
University of Calgary, Calgary, Alberta

- Designed a YOLOv8-based deep learning model to classify sleep apnea severity (mild, moderate, severe, healthy), achieving a 93.7% accuracy rate
- Conducted comparative evaluation with ResNet64 and YOLOv5, demonstrating YOLOv8's superiority in both accuracy and computational efficiency through parameter reduction

**Web Publisher** Sep 2020 – Aug 2024  
Health Canada, Ottawa, Ontario

- Developed and maintained over 500 WCAG 2.1 AA-compliant web pages on [Canada.ca](https://Canada.ca) using Adobe Experience Manager, HTML, and Web Experience Toolkit, reinforcing the government's commitment to inclusivity and accessibility for millions of citizens

**Web Developer** Mar 2019 – Sep 2019  
OPIN, A Portage CyberTech Company, Ottawa, Ontario

- Developed and maintained Drupal websites compliant with WCAG 2.1 AA standards, including [Holland Bloorview](#), [Hydro Ottawa](#), and [York Region District School Board](#), focusing on usability to promote easy access and interaction with site features, serving over 300,000 users monthly
- Produced efficient, well-tested, refactored, documented, maintainable, and extendable HTML, CSS, JavaScript, and PHP code, improving overall site functionality and user engagement

**Doctoral Researcher** Nov 2013 – Mar 2016  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

- Collected and prepared data for analysis, ensuring accuracy, completeness, reliability, relevance, and timeliness to elevate research quality and optimize deliverables
- Developed data visualizations and analytical reports that generated actionable insights, underpinning three peer-reviewed publications and two patented devices
- Presented findings at over ten international conferences, increasing citations and broadening research impact

### RECENT AWARDS

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  
COVID-19 Commemorative Coin – **Support & Contribution to Canada's COVID-19 Response Efforts** (2023), Public Health Agency of Canada