

# ALINA YILDIR

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## SUMMARY OF SKILLS

- **Data Engineering and Big Data:** Proficient in data manipulation with Python (Pandas, NumPy) and R (dplyr, tidyr), along with SQL for relational database management. Experienced in using Google BigQuery for scalable analytics and AWS (S3, EC2, EMR) for cloud computing. Knowledgeable in distributed computing frameworks like Apache Spark and Hadoop, ensuring high data quality and integrity throughout the data pipeline for effective analysis.
- **Exploratory Data Analysis:** Skilled in Python (Pandas, Matplotlib, Seaborn, Plotly), R (ggplot2, dplyr, tidyr), and Tableau to uncover insights and create impactful visualizations.
- **Statistical Analysis and Inference:** Expertise in statistical modelling and hypothesis testing (t-tests, ANOVA) with Python (SciPy, Statsmodels) and R (base R, dplyr, ggplot2), ensuring robust analysis and data-driven decision-making.
- **Machine Learning:** Applied knowledge of machine learning algorithms (decision trees, random forests, boosting, deep learning) with Python (Scikit-learn, TensorFlow, Keras, XGBoost), focusing on model optimization and evaluation.

## EDUCATION

<b>Master of Data Science and Analytics</b> University of Calgary, Alberta	Sep 2024 - Present
<b>Ontario College Diploma (Hons) in Internet Applications and Web Development</b> (GPA: 3.99/4.00) Algonquin College of Applied Arts and Technology, Ottawa, Ontario	Sep 2016 - Jun 2019
<b>Master of Science (Hons) in Chemistry</b> (avg. grade: 94.25/100) Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Ukraine	Sep 2012 - Jun 2013
<b>Bachelor of Science (Hons) in Chemistry</b> (avg. grade: 91.33/100) Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Ukraine	Sep 2008 - Jun 2012

## RECENT CERTIFICATES

<b>Certificate in Artificial Intelligence</b> (avg. grade: 98/100) University of Toronto School of Continuing Studies, Ontario	Jan 2022 - Oct 2024
<b>Certificate in Data Science</b> (avg. grade: 99.5/100) University of Toronto School of Continuing Studies, Ontario	Jun 2021 - Oct 2022

## EMPLOYMENT EXPERIENCE

### Communications Officer

Jan 2018 - Aug 2018, Sep 2020 - Aug 2024

Health Canada, Ottawa, Ontario

- Developed and maintained 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 all citizens.
- Created WCAG 2.1 AA-compliant PDF forms using Foxit, enhancing user experience and supporting the mission of equal access to information.

### 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](#), concentrating on usability to promote easy access and interaction with site features.
- 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

A. V. Dumansky Institute of Colloid and Water Chemistry, National Academy of Sciences of Ukraine

- Collected and prepared data for analysis, ensuring accuracy, completeness, reliability, relevance, and timeliness, significantly elevating the quality of research findings and optimizing project deliverables.
- Conducted advanced statistical analyses, generating actionable insights that contributed to the successful development of two patents.
- Developed comprehensive data visualizations and analytical reports using R and ggplot2, ensuring that research findings were easily interpretable for grant proposals and academic publications.
- Published research in peer-reviewed journals and presented findings at international conferences, resulting in increased citations and broadening the impact of the research findings.

## RECENT AWARDS

### 2023 Assistant Deputy Minister's Merit Award – Collaboration and Service Excellence

Jun 2024

Health Canada, Ottawa, Ontario

Recognized for exceptional collaboration and service delivery within or outside the Branch.

### 2023 Assistant Deputy Minister's Merit Award – Contribution to the Improvement of the Health of Canadians

Jun 2024

Health Canada, Ottawa, Ontario

Acknowledged for making a significant contribution to improving the health of Canadians.

### COVID-19 Commemorative Coin

May 2023

Public Health Agency of Canada, Ottawa, Ontario

Awarded for support and contribution to Canada's COVID-19 response efforts.