

# ALINA YILDIR

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<https://yildiralina.github.io/>  
<https://github.com/yildiralina?tab=repositories>  
<https://www.kaggle.com/alinayildir/code>

## PROFILE

Dedicated data scientist with a solid technical skill set that spans programming languages such as Python, R, and SQL, complemented by a profound grasp of statistics, probability, data visualization, data wrangling, database management, and machine learning. Master's Degree in Chemistry and two Data Science certificates from the University of Toronto School of Continuing Studies (with a primary emphasis on Python) and HarvardX (with a primary focus on R). Significant expertise in the fields of communications, web development, and research.

## TECHNICAL SKILLS

**Programming:** Python, R, SQL, JavaScript

**Statistics and probability:** Probability distributions, over and undersampling, bayesian (or frequency) statistics, dimension reduction

**Data wrangling and database management:** NumPy, pandas, MySQL

**Machine learning:** Linear regression, logistic regression, naive Bayes, decision trees, random forests, k-nearest neighbors (KNN), k-means

**Data visualization:** Matplotlib, seaborn, Tableau

**Others:** Git, ChatGPT, prompt engineering, Adobe Photoshop

## EDUCATION

<b>Professional Certificate in Data Science</b> Harvard University, HarvardX	2023
<b>Certificate in Data Science</b> University of Toronto School of Continuing Studies, Toronto	2022
<b>Ontario College Diploma (Hons) in Internet Applications and Web Development</b> Algonquin College of Applied Arts and Technology, Ottawa	2016 - 2019
<b>Master of Science (Hons) in Chemistry</b> Vinnytsia State Pedagogical University, Ukraine	2012 - 2013
<b>Bachelor of Science (Hons) in Chemistry</b> Vinnytsia State Pedagogical University, Ukraine	2008 - 2012

To see more certificates and badges, visit <https://github.com/yildiralina/selected-certificates> and <https://www.credly.com/users/alina-yildir/badges>.

## WORK EXPERIENCE

<b>Communications Officer</b> Communications and Public Affairs Branch, Health Canada	Sep 2020 - Present, Jan 2018 - Aug 2018
<ul style="list-style-type: none"><li>Created and updated web pages on <a href="https://canada.ca">Canada.ca</a> using Adobe Experience Manager</li><li>Followed the Web Content Accessibility Guidelines (WCAG) 2.1 Level AA to make web content accessible to people with disabilities</li><li>Completed 1000+ web publishing requests and received a Citation of Excellence for outstanding contributions to the Digital Communications team</li></ul>	
<b>Web Developer</b> OPIN, A Portage CyberTech Company	Mar 2019 - Sep 2019
<ul style="list-style-type: none"><li>Built and maintained Drupal websites compliant with the WCAG 2.1 AA standard (e.g., <a href="#">Hydro Ottawa</a>, <a href="#">York Region District School Board</a>, and <a href="#">Holland Bloorview Kids Rehabilitation Hospital Foundation</a>)</li><li>Produced efficient, well-tested, refactored, documented, maintainable, and extendible HTML, CSS, Sass, Bootstrap, JavaScript, jQuery, React, PHP, and Twig code</li></ul>	
<b>Research Assistant</b> Institute of Colloid and Water Chemistry, National Academy of Sciences of Ukraine	2013 - 2016
<ul style="list-style-type: none"><li>Identified the necessary data, collected it, cleaned it for analysis, analyzed it thoroughly, and interpreted the resulting findings</li><li>Analyzed performance, identified trends, and refined processes to coordinate research projects and foster continuous improvement</li><li>Disseminated the study findings via peer-reviewed journal publications and professional forum presentations</li></ul>	

## SELECTED PROJECTS

Typical tasks across projects (e.g., [Linear Regression Models to determine if ICU Utilization can be estimated based on Hospital Occupancy and Vaccination Status](#), and [Default Prediction for Credit Card Users](#), [Factors Affecting Used Car Valuation](#)) include:

- Loading, exploring, and processing data using the pandas Python package
- Using Matplotlib to create compelling data visualizations
- Implementing predictive machine learning models with scikit-learn and XGBoost
- Using lasso and ridge regression to reduce model overfitting
- Building ensemble models of decision trees using random forest and gradient boosting
- Evaluating model performance and interpreting model predictions
- Delivering valuable insights by making clear business recommendations