ALEXANDRIA AHLUWALIA

TECHNICAL SKILLS

R(Statistics, Data Science, Machine Learning),
Python (NumPy, SciPy, pandas), VBA Macros
Excel, HTML, SQL, MATLAB, Tableau

LANGUAGES

English - Native Speaker
German - Professional Proficiency
Spanish - Basic Proficiency

CONTACT

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EDUCATION

Bachelor of Science (Mathematics & German Major) — Sep 2015 - Dec 2020 (expected)
University of British Columbia Vancouver, Canada

Exchange Student (German Studies), Freie Universität Berlin, Germany — Oct 2017 - Jul 2018

WORK EXPERIENCE

Data Analyst, Canadian Nuclear Laboratories — May - Aug 2019
- Successfully preformed analysis on environmental datasets using statistical techniques, some with hourly recordings for 10+ years to find trends, ensure data quality, consistency, and conformity.
- Examined workflow processes and documented each process to author a comprehensive 150+ page software user guide for a Geocortex database viewer, collaborating with subject matter experts.

Systems Consultant, Blue Spark Energy Inc. — Aug 2018
- Wrote 2 VBA Macros on Excel for the R&D Project Manager that implemented a better system for inputing product testing results into spreadsheets for analysis and visualizations.
- Reduced efforts from 8 hours of manual work to 30 minutes of run time.

Sales and Marketing Support, Purchasing Support, Normfest GmbH — Jul - Sep 2017
- Collaborated with International suppliers to complete database. Adjusted prices to ensure profit for sales and created monthly reports.
- Worked in the Product and Purchasing Department and in Backoffice to create and organize a complete Chemical Product database and to assist with sales by price management. — May - Aug 2016

RELEVANT COURSEWORK

Relational Databases
Jan 2020 - Apr 2020, CPSC 304 UBC
Focused on relational database systems, logical design, E-R models, relational query languages, SQL, functional dependencies, and normalization.

Data Science
Jan 2019 - April 2019, DSCI 100 UBC
Implemented a data science workflow in R (programming language) with an emphasis on an intelligent and reproducible workflows and presentation.

Mathematics of Machine Learning
Oct 2017 - Feb 2018, FUB 19210511
Focused on techniques that approximate probability distributions based on samples from the distributions, in particular, in Bayesian neural networks.

Mathematical Computing
Jan - April 2017, MATH 210 UBC
Scientific computing in Python with use of computing packages NumPy, SciPy, matplotlib and pandas for differential equations, statistics and visualizations.

RESEARCH EXPERIENCE

Machine Learning Research Assistant, Tecnológico de Monterrey — Sep - Oct 2019
- Researched the optimization of hybrid beamforming precoding algorithms using millimeter waves and random matrices. Created a more efficient precoding algorithm with the use of eigenvalues that approaches the performance of a fully digital architecture.

ADDITIONAL EXPERIENCE

Accessibility Assistant, UBC Centre for Accessibility — Jan - April 2020
Tutor and scribe for a UBC student with a visual impairment in German

Website Developer, Coordinator, UBC Women's Centre — Sep 2015 - present
AMS resource group focused on supporting women in the UBC community