

Norbert Eke

DATA SCIENTIST - RECENTLY MOVED TO ZÜRICH

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Education

Master of Computer Science - Specialization in Data Science

CARLETON UNIVERSITY

Graduated with a GPA of 11.4/ 12. [Master's Thesis](#) in NLP, Machine Learning, and Data Mining

Ottawa, ON, Canada

Sept 2018 - June 2020

Bachelor of Science - Honours in Computer Science, Minor in Data Science

UNIVERSITY OF BRITISH COLUMBIA - OKANAGAN

Graduated with a GPA of 3.8/ 4.0. [Honours Thesis](#) in NLP and Machine Learning

Kelowna, BC, Canada

Sept 2014 - June 2018

Experience

Data Scientist

HEALTH CANADA

- Developing **NLP & predictive modeling** for Health Canada's **Risk Intelligence and Strategic Operations** team
- Responsible for researching & implementing text processing, **keyword extraction**, and predictive modeling using **ML**
- Working in an **agile** framework with non-technical people **to gather requirements** and to **design innovative and complex techniques** for automating workflows, ensuring customer satisfaction, usability, and effectiveness

Ottawa, ON, Canada

February 2021 - present

Graduate Research & Teaching Assistant

CARLETON UNIVERSITY

- Hosted office hours & graded assignments for the **Introduction to Databases** and **Distributed Computing** courses
- Conducted research on [Software Developer Expertise Learning](#) in Dr. Olga Baysal's [Software Analytics](#) lab

Ottawa, ON, Canada

Sept 2018 - April 2020

Data Scientist Intern

NATIONAL RESEARCH COUNCIL CANADA (NRC)

- Successfully delivered a fully working novel solution for a government client with NRC's Data Analytics Centre
- Performed various **time series analysis** of textual data using **Bayesian changepoint detection** algorithms
- Delivered an extensive report on the analysis results, presented findings to the client, and shipped the source code

Ottawa, ON, Canada

May 2019 - August 2019

Research Assistant

UNIVERSITY OF BRITISH COLUMBIA

- Conducted research on **feature-based opinion mining** and delivered a [presentation](#) about our findings – [GitHub](#)
- Developed automated opinion detection from reviews about product features using **Machine Learning**

Kelowna, B.C, Canada

May 2017 - August 2017

Skills

Programming

Software Engineering

Databases

Cloud, Deployment & Tools

ML Platforms and Libraries

Machine Learning

Deep Learning

Statistics

Data Analysis

Interpersonal Skills

PYTHON, R, SQL, JAVA, HTML, Algorithmic Thinking, OBJECT-ORIENTED PROGRAMMING

Experienced with **Client-Server Applications** ([projects](#)), **Agile Development**, Algorithm Implementation, CI & CD, **Git**, Deployment, **Unit Testing**, **Writing Reports & Documentation**

Extensive experience with SQL, Architecture Design, **MySQL**, PostgreSQL, NoSQL

Azure, BigQuery, Flask, Docker, Tableau, Cognos, Colaboratory, Familiarity with Linux environ. **TensorFlow, Keras, SciKit-Learn**, Imbalanced-Learn, **tidyverse**, StatsModels, PyCaret, SpaCy, Seaborn, **Numpy, Pandas, Matplotlib, SciPy**, SQLAlchemy, Scikit-Optimize, **Gensim, NLTK**

Supervised & Unsupervised: Traditional ML (Random Forest, k-NN, SVM), **Outlier Detection, Time-series Forecasting**, Hyper-param. Optimization, **Regression, Classification, Clustering**

Neural Nets for **NLP** and **Computer Vision** Applications using MLP, CNN, RNN, LSTM, GRU, GAN

Descriptive Statistics, Probability Theory, Bayesian Statistics, **Time Series Forecasting**,

Statistical Modeling, Inference, Dimensionality Reduction (**t-SNE, PCA**), Hypothesis Testing

Extensive experience with **Data Cleaning, Wrangling, Visualization** (Tableau, d3.js, ggplot2),

Predictive Modeling, Data Mining, EDA, Handling **Unstructured Data**, Algorithm Design

Teamwork, Intellectual Curiosity, **Excellent Leadership & Communication Skills**, Time

Management, Motivation, Optimism, Analytical Thinking, **Data-Driven Problem Solving**

Projects

DATA SCIENCE AND MACHINE LEARNING

2017-2021

- F1 Data Analysis**: Analyzed previous Turkish GP race lap times, and visualizing race pace trends across different years
- Completed an 8-month [Undergraduate Thesis](#) project on [Detection of Sexual Predatory Behavior in Chat-rooms](#)
- Provided **statistical consulting** for the *Statistical Society of Canada* and improved their [conference schedule](#)
- Performed Unsupervised **Feature Selection, Outlier Detection**, Time Series Analysis as [professional development](#)

DEEP LEARNING

2019-2021

- F1 Side-Project**: Built a binary classifier using LSTM models that will predict if a pit-stop will happen the next race lap
- Completed [TensorFlow in Practice Specialization](#) course; fitted **MLP, CNN, RNN & LSTM** models for various tasks
- Conducted research in Anomaly Detection using **Generative Adversarial Networks**; available on [GitLab](#)
- Trained models for *Text Entailment and Semantic Relatedness* **NLP** task, available on [GitHub](#)