

Norbert Eke

DATA SCIENTIST

Living in Zürich, Switzerland

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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

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

MIGROS ONLINE

- Preparation & analysis of user data in order to **optimize the entire customer journey** of every user in the long term
- End-to-end responsibility** in the analytical cycle; from data acquisition & processing to ML modeling & deployment

Zürich, Switzerland

July 2021 - present

Data Scientist

HEALTH CANADA

- Replaced manual data operations using ML techniques** by automating and scaling the decision making process
- Increased the efficiency and **scaled the resource allocation process** for the [Risk Intelligence and Strategic Operations](#) team by developing **NLP & ML** models for predicting the duration of product inspections
- Improved product usability through **cross-functional operations** for data validation and data quality enhancement

Ottawa, ON, Canada

February 2021 - June 2021

Data Science Researcher & Teaching Assistant

CARLETON UNIVERSITY

- Empowering students during office hours & graded assignments for **Intro to Databases** and **Distributed Computing**
- Developed an AI-driven recruitment algorithm through [Cross-Platform Software Developer Expertise Learning](#)

Ottawa, ON, Canada

Sept 2018 - April 2020

Data Scientist Intern

NATIONAL RESEARCH COUNCIL CANADA (NRC)

- As a member of the [Data Analytics Centre](#), **enabled 15 external data analysts** to perform complex textual analysis
- Assisted the security team in identifying unusual events from news articles using a novel unsupervised solution for outlier detection using **Bayesian changepoint detection** on a collection of 5-year historical data

Ottawa, ON, Canada

May 2019 - August 2019

Skills

Programming

PYTHON, R, SQL, JAVA, HTML, Algorithm Design, Data Structures, Object Oriented Programming

Software Engineering

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

Databases

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

Cloud & Deployment

Azure, Flask, Docker, Tableau, Cognos, Colaboratory, Familiarity with Linux environments

ML & DS Libraries

TensorFlow, **Keras**, **Scikit-Learn**, Imbalanced-Learn, **Tidymverse**, Caret, PyCaret, StatsModels, Seaborn, **Numpy**, **Pandas**, **Matplotlib**, SciPy, Scikit-Optimize, SpaCy, **Gensim**, **NLTK**, dedupe

Machine Learning

Traditional ML (Random Forest, Decision Trees, SVM), **Regression**, **Classification**, **Clustering**, Time-series Forecasting, **Feature Selection**, **Outlier Detection**, NLP, Hyper-parameter Optim.

Deep Learning

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

Statistics

Descriptive Stats, Probability Theory, **Bayesian Statistics**, **Statistical Modeling**, Time Series Analysis, Statistical Language Models, Inference, Dimensionality Reduction, Hypothesis Testing

Data Analysis

Extensive experience with **Data Cleaning**, **Wrangling**, **Visualization** (Tableau, d3.js, ggplot2), EDA, **Feature Engineering**, **Data Mining**, **Predictive Modeling**, Handling **Unstructured Data**

Interpersonal Skills

Teamwork, Intellectually Curious, Continuous Learner, **Leadership & Communication Skills**, Time Management, Optimist, Motivated, Analytical Thinker, **Data-Driven Problem Solver**

Projects

DATA SCIENCE AND MACHINE LEARNING

2017-2021

- [F1 Data Analysis](#): Identified patterns and race strategies by visualizing historical lap times from the Turkish GP
- Increasing online safety through my [Undergraduate Thesis](#) on [Detection of Sexual Predatory Behavior in Chat-rooms](#)
- Provided **statistical consulting** services 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](#): Predicting the next race lap pit-stops using **LSTM** binary classifiers
- [TensorFlow in Practice Specialization](#) course; trained **MLP**, **CNN**, **RNN & LSTM** models for various tasks
- Conducted research in *Anomaly Detection* for NLP data using **Generative Adversarial Networks**; available on [GitLab](#)
- Designed a deep learning approach for *Text Entailment and Semantic Relatedness* **NLP** task, available on [GitHub](#)