Norbert Eke
Data Scientist
Recently moved to Zürich with EU citizenship

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Education

Master of Computer Science - Specialization in Data Science *Ottawa, ON, Canada*
Carleton University *Sept 2018 - June 2020*
Graduated with a GPA of 11.4/ 12. Master's Thesis in NLP, Machine Learning, and Data Mining

Bachelor of Science - Honours in Computer Science, Minor in Data Science *Kelowna, BC, Canada*
University of British Columbia *Sept 2014 - June 2018*
Graduated with a GPA of 3.8/ 4.0. Honours Thesis in NLP and Machine Learning

Experience

Data Scientist *Ottawa, ON, Canada*
Health Canada *February 2021 - present*
- **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

Graduate Research & Teaching Assistant *Ottawa, ON, Canada*
Carleton University *Sept 2018 - April 2020*
- 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*

Data Scientist Intern *Ottawa, ON, Canada*
National Research Council Canada (NRC) *May 2019 - August 2019*
- 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

Research Assistant *Kelowna, B.C, Canada*
University of British Columbia *May 2017 - August 2017*
- Analyzed user behaviour via **feature-based opinion mining** & delivered a presentation to approx. 50 people – GitHub

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, **Tidyverse**, 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