Norbert Eke
Data Scientist
Canadian & EU Citizen Living in Switzerland

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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 *Zürich, Switzerland*
MIGROS ONLINE *July 2021 - present*
- Increased user retention by 8% by modeling **customer lifetime values** & detecting at-risk-of-churning customers
- Developed **data solutions** for customer retention using **data analysis, stat. modeling & dashboard development**
- **End-to-end responsibility** in the analytical cycle; from data acquisition & processing to ML modeling & deployment

Data Scientist *Ottawa, ON, Canada*
HEALTH CANADA *February 2021 - June 2021*
- **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 & Machine Learning models** for predicting the duration of product inspections
- Improved product usability through **cross-functional operations** for data validation and data quality enhancement

Data Science Researcher & Teaching Assistant *Ottawa, ON, Canada*
CARLETON UNIVERSITY *Sept 2018 - June 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

Data Science Researcher *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, GIT**, JAVA, HTML, Algorithm Design, Data Structures, Object Oriented Programming
Databases	**Extensive experience with SQL**, Database Design, **BigQuery**, **MySQL**, PostgreSQL, NoSQL
Software Engineering	Experienced with **Client-Server Applications** (projects), **Agile Development**, Algorithm Implementation, CI & CD, **Git**, Deployment, **Unit Testing, Writing Reports & Documentation**
Cloud & Deployment	**GCP (Vertex AI, App Engine, Compute Engine, Cloud Functions & Scheduler)**, Flask, Docker
ML & DS Libraries	**TensorFlow**, **Scikit-Learn**, Scikit-Optimize, ImbalancedLearn, PyCaret,StatsModels,**Streamlit**, Tslearn, Sktime, **Numpy, Pandas, Matplotlib**, Plotly, Seaborn, Lifetimes, SpaCy, **Gensim**, NLTK
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	Deep Neural Nets for **NLP** & **Time-series Forecasting** using MLP, CNN, RNN, LSTM, GRU, GAN
Statistics	Descriptive Stats, Probability Theory, Regression Analysis, **Bayesian Statistics**, **Statistical Modeling**, Bayesian AB Testing, Inference, Dimensionality Reduction, Hypothesis Testing
Data Analysis	Extensive experience with **Data Acquisition, Cleaning & Visualization** (Looker & Streamlit dashboards), **Feature Engineering**, **Predictive Modeling**, Handling **Unstructured Data**
Interpersonal Skills	**Teamwork**, Intellectually Curious, Continuous Learner, **Leadership & Communication Skills**, Time Management, Self-Starter, Motivated, Analytical Thinker, **Data-Driven Problem Solver**

Projects

DATA SCIENCE AND MACHINE LEARNING *2017-2022*
- *F1 Data Analysis*: Identified patterns and **race strategies** by visualizing historical lap times from previous **Turkish GPs**
- *F1 Side-Project*: Built a **binary classifier** using **LSTM** models that predicts if a pit-stop will occur the next lap
- 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