Norbert Eke
Data Scientist

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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 - OKANAGAN — *Sept 2014 - June 2018*
Graduated with a GPA of 3.8/ 4.0. Honours Thesis in NLP, and Machine Learning

Skills

Interpersonal Skills	**Teamwork**, Intellectual Curiosity, **Excellent Leadership & Communication Skills**, Time Management, Motivation, Optimism, Analytical Thinking, **Data-Driven Problem Solving**
Programming	**PYTHON**, **R**, SQL, JAVA, **Object-Oriented Programming**, Data Structures, Algorithmic Thinking
Software Engineering	Experienced with **Client-Server Applications** (projects), Algorithm Implementation, CI & CD, Deployment, Unit Testing, **Agile Development**, Writing Reports & Documentation
Cloud & Deployment	AWS, **Azure**, BigQuery, Flask, Docker
ML Platforms and Libraries	**TensorFlow**, **Keras**, **SciKit-Learn**, Imbalanced-Learn, **tidyverse**, StatsModels, PyCaret, SpaCy, Seaborn, **Numpy, Pandas, Matplotlib, SciPy**, SQLAlchemy, Scikit-Optimize, **Gensim, NLTK**
Machine Learning	**Supervised & Unsupervised**: Traditional ML (Random Forest, k-NN, SVM), **Outlier Detection**, **Time-series Forecasting**, Hyper-param. Optimization, **Regression**, **Classification**, **Clustering**
Deep Learning	Neural Nets for **NLP** and **Computer Vision** Applications using **CNN, RNN, LSTM, GRU, GAN**
Statistics	Descriptive Statistics, **Probability Theory**, Bayesian Statistics, **Time Series Analysis, EDA**, **Statistical Modeling & Inference**, Dimensionality Reduction (**t-SNE, PCA**), Hypothesis Testing
Data Analysis	Extensive experience with **Data Cleansing, Wrangling, Visualization** (Tableau, Ggplot), A/B testing, **Predictive Modeling**, **Data Mining**, Handling **Unstructured Data, Algorithm Design**
Databases	**Extensive experience with SQL**, Architecture Design, **MySQL**, PostgreSQL, NoSQL
Tools	**Git**, **Tableau**, Colaboratory, **R Studio**, **Jupyter**, Familiarity with Unix/Linux environments

Experience

Graduate Researcher and Teaching Assistant — *Ottawa, ON, Canada*
CARLETON UNIVERSITY — *Sept 2018 - April 2020*
- Hosted office hours & graded assignments for the **Introduction to Databases** and **Distributed Computing** courses
- Conducted research on *Software Developer Expertise Learning* in Prof. Olga Baysal's **Software Analytics** lab
- Applied the research to **recruitment and talent search** by determining candidate expertise in **data-driven** ways

Data Scientist Intern — *Ottawa, ON, Canada*
NATIONAL RESEARCH COUNCIL CANADA (NRC) — *May 2019 - August 2019*
- 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

Undergraduate Researcher — *Kelowna, B.C, Canada*
UNIVERSITY OF BRITISH COLUMBIA - OKANAGAN — *May 2017 - August 2017*
- Conducted research on **feature-based opinion mining** and delivered a presentation about our findings – GitHub
- Designed automated opinion detection from reviews about product features using **Machine Learning**

Undergraduate Teaching Assistant — *Kelowna, B.C, Canada*
UNIVERSITY OF BRITISH COLUMBIA - OKANAGAN — *Sept 2015 - April 2018*
- Taught laboratory classes to hundreds of undergraduate students for the Introduction to **Java I and II**, **Discrete Structures**, and **Machine Architecture** courses. Graded weekly assignments, midterms, and projects

Projects

DATA SCIENCE AND MACHINE LEARNING — *2017-2020*
- Completed an 8-month Undergraduate Thesis project on Detection of Sexual Predatory Behavior in Chat-rooms, improving my **Data Analytics**, **Statistical Machine Learning**, and **Natural Language Processing** experience
- 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
- Explored the evolution of Stack Overflow discussions using Sentimental Analysis; available on GitHub

DEEP LEARNING — *2019-2020*
- Completed 3 courses part of the TensorFlow in Practice Specialization on Coursera
- Fitted **CNN, RNN, GRU, GAN, and LSTM** models for classification and forecasting 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