CATHERINE M. GITAU

Nairobi, Kenya

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TECHNICAL SKILLS

Programming Languages	Python, R, Scala
Software	Latex, Tableau, PowerBI,
Frameworks	Pytorch, Tensorflow, Numpy, Scikit-Learn, Pandas, Spark, Dash, Shiny

EDUCATION

African Institute for Mathematical Sciences(AIMS), Ghana *Oct 2019 - Present*
African Master's in Machine Intelligence(AMMI)
MSc. Machine Intelligence

University of San Francisco, CA *Mar 2019 - May 2019*
Deep Learning Certificate.

Jomo Kenyatta University of Agriculture and Technology, Kenya *Oct 2013 - June 2017*
BSc. Mathematics and Computer Science. Second Class honors

WORK EXPERIENCE

Proto.cx, remote Feb 2020 - Present
Part-time NLP Engineer

· Developing Natural Language Processing algorithms, systems design and development as well as performing NLP research and article writing

Africa's Talking, Kenya Apr 2018 - Oct 2019
Data Scientist

· Use of various data mining, cleaning and analysis tools for product performance and evaluation to increase company's revenue.
· Support the voice product team in identifying trends in the data and provide relevant reports such as cohort analysis for clients and investors.
· Built a customer lifetime value model using R to identify valuable customers in the organisation as well as grouping customers based on their similarities to help with cross selling of products.
· deployed analytics tools using Spark

Ongair Limited, Kenya Oct 2017 - Apr 2018
Junior Data Scientist

· Collected and extracted social media data for analysis such as sentiment analysis, text matching and presented the results using Tableau as well as training the online customer service auto-responding Bot where I was able to increase accuracy by 20%

Brave Venture Labs, Kenya June 2017 - Oct 2017
Data Science Intern

· Data collection, cleaning and analysis of data. Performed unsupervised machine learning techniques to identify patterns in data as well as use of Natural Language Processing techniques such as POS tagging and Named Entity Recognition, which helped in identifying important features in the data to be used in modeling.

EXTRA-CURRICULAR

Co-organiser **Nairobi Women in Machine Learning and Data Science (WiMLDS)**
Speaker **Google Developer Groups Dev Fest - 2017**
Speaker **Tensorflow Summit- 2018**
Speaker **ACCA Power of Digital Round-table- 2019**
Attendee **UseR Conference, Toulouse France - 2019**
Organiser **Deep Learning Indaba- 2019**

AWARDS COMPETITIONS

Scholarship: **African Masters in Machine Intelligence**

Competiton: **Zindi Predicting People's Movement into Nairobi.(rank 101 out of 204)** Used Random forest to predict the demand of public transportation.

Competiton: **Womxn in Big Data South Africa: Female-Headed Households in South Africa (rank 44 out of 204)**. designed and developed a solution to this Zindi Competition, predicting the number of female headed households in south Africa. Our base models were XGboost, LightGBM and Random forest. We used various feature engineering and exploration methods such as using a map to view GIS data, K-means and DB Scan for clustering.

REFERENCES

References to be provided upon request.