MICHAEL KARANJA MUYA

mykashton@gmail.com | http://www.mikekaranja.com/

I'm a Data Scientist experienced in solving challenging business problems by designing and executing machine learning projects; from data warehousing and developing predictive models to deploying and monitoring models in production.

SKILLS

- Python
- Big Data
- Data Security
- Geospatial Modelling

- Machine learning
- Pyspark
- Embedded Systems
- Data Analysis

- Data Visualization
- MySQL, Postgres
- Web Scraping
- Time Series Modelling

RELEVANT EXPERIENCE

Data Scientist, Crop Nutrition Laboratory Services
November 2017 - Present
Nairobi, Kenya

- Improved yields for thousands of smallholder farmers by deploying machine learning models as an affordable alternative to expensive lab soil testing
- Developed APIs to interface models with web apps and dashboards to communicate various data analyses and model results
- Ensured continual model improvement by developing an outlier detection system to select samples for lab analysis to be used for model retraining
- Facilitated data transparency and full usage of various data sources by implementing a data warehouse for previously siloed data
- Improved operational efficiencies by 50% by automating repetitive processes

Trainee Consultant, The Consulting Academy of Nairobi
August 2018 – August 2019
Nairobi, Kenya

- Improved internal operations by setting up the academy's IT infrastructure
- Set up of the data science strategy to train tens of student consultants
- Increased traffic to the website by collaborating with the marketing team to redesign the academy's website

Software Engineer Intern, Coretec Systems and Solutions
August 2017 - October 2017
Nairobi, Kenya

- Increased SACCO coverage and efficiency through development of SMS and USSD APIs for financial applications
- Information System software development in C#
- Developed Android applications for clients

Data Science Intern, Power Digital Systems
March 2015 - December 2015
Nairobi, Kenya
- Developed web scraping tool for data collection
- Developed custom data visualization dashboards for clients

CERTIFICATES

Data Lit, The School of AI
February 2019 - April 2019
- Data Visualization
- Supervised and Unsupervised Learning
- Deep Reinforcement Learning
- Distributed Computing

Decentralized Applications, The School of AI
March 2018 - July 2018
- Blockchain Essentials
- Smart contracts
- Secure and decentralized applications with incentives

Deep Learning Specialization, Coursera
August 2017 - February 2018
- Neural Networks and Deep Learning
- Improving Deep Neural Networks
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

EDUCATION

University of Nairobi   **Bsc in Microprocessor Technology and Instrumentation**

Nairobi, Kenya   Graduated Second-Class Upper Distinction 2018