Adah Kibet

A Data Scientist and Machine Learning Engineer ready for remote work or relocation with experience working in Bio Tech, AI, Ed Tech and Software companies using Python, R and Matlab. I have a keen interest in research and combining it with engineering implementations to develop products and create informative, decisive and sustainable analytical and production workflows.

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SKILLS

Python R

Theano TensorFlow

OpenCV ScikitLearn

PyTorch NLTK

Bayesian Inf. Heroku

Git NLP QGIS

EC2 SQL Spark

SciPy K8s

Conversational AI S3

Matlab MongoDB

Tableau Power BI

Hadoop Kubeflow

PROJECTS

Power Analysis

Biometric Attendance

Sentiment Analysis & Topic Modeling

TDS Blogging

WORK EXPERIENCE

Data Scientist
Pivot Bio.

02/2021 - 06/2022   *Berkeley, USA. (Remote).*
Bio Technology Company.

Achievements/Tasks

- Automated detection of pass/fail and harvest time for microbial strains by building a 91% accurate CNN time-series classification model using TensorFlow. Spinned multiple EC2 instances to train the model.
- Conducted Power Analyses to inform experimental designs both for microbial and crop trials.
- Led the Data Engineering team. Main focus: building SQL and Spark ETL pipelines.
- Disqualified the validity of satellite imagery in detecting product effect by bagging mixed effect regressors for 30 trials point data after correcting for spatial auto-correlation using Gaussian Process and Spatial Error models in Python, R and QGIS. Generated field maps using ggplot2.
- Built python libraries to: generate reports on the status of data in the Warehouse and set satellite imagery streaming workflows through automated API calls from Planet Labs and Descartes Labs.
- Designed, prototyped, implemented, evaluated and deployed a Lidar Toolkit app in Flask and Bash.

Machine Learning Researcher
Traits AI.

01/2021 - 08/2021   *San Diego, USA (Remote).*

Achievements/Tasks

- Researched, built, trained, tested, optimised and deployed the FastSpeech2 Text to Speech Conversational AI model using RNNS and GANS in PyTorch on SDSC Comet GPU clusters.
- Researched, built, trained, tested and optimised the Synthesize Obama Speech to Video model in PyTorch and Scikit Learn on AWS EC2 instances. Used GitHub for collaboration.
- Optimised loss functions through hyperparameters tuning and vocoders change with the aid of a TensorBoard and MFA.

Data Science Intern
10 Academy

06/2020 - 10/2020   *Berlin, Germany (Remote)*

Achievements/Tasks

- Designed, built, tested & deployed (Heroku) a web app that predicts Pharmaceutical Sales across multiple stores & analyses existing data. The Random Forest Regressor model had an MSE of 0.01876.
- Performed change point analysis using Theano and Pymc3 to quantify the impact of the Kenyan government policy interventions to slow the spread of COVID-19 then reported the findings.
- Built a Covid-19 tableau dashboard after creating an ETL pipeline using Spark, S3, SQL & python.
- Quantified the impact of Covid-19 lockdown policies on air quality through time series analysis, sentiment analysis & topic modeling using data scraped from Twitter using *NLTK, Spacy* & *ScikitLearn.*

Software Engineering Intern
Swahili Box Hub.

04/2019 - Present   *Mombasa, Kenya.*

Achievements/Tasks

- Designed, built and deployed a Marine ecosystem management web app using Django, JavaScript and PostgreSQL db. Integrated GitHub CI/CD into the development.

EDUCATION

B.Sc Mathematics and Computer Science.
Technical University of Mombasa.

09/2016 - 02/2021   *2nd Class Honors, Upper Division.*

Kubernetes for Developers
PluralSight

2022 - 2022