

Desmond Onam

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Education

10 Academy, Santa Clara

Machine Learning Data Engineer
2017- Dec. 2021

Sep.

Jomo Kenyatta University of Agriculture and Technology

Nairobi.

BS. Mathematics and Computer Science

Sep. 2017- Dec. 2021

Technical Skills

Machine Learning and Optimization: TensorFlow, Scikitlearn, Pytorch, Flask, AWS.

Statistics and Model analysis: A/B testing, model development, Causal graphs, Bayesian Analysis.

Parallelism: Kubernetes and Docker

Pipeline Tools: Apache Kafka, Building, Monitoring and scheduling Airflow, Spark, DBT, ETL and EDA.

Data pipelines and ETL: MongoDB, airflow, Apache Spark, AWS, DVC, DBT, SQL, Data Collection, Web Scraping.

Testing: Pytest.

Scripting: Bash, Powershell, ssh.

Deep Learning: CNN, RNN, Keras.

Databases: PostgreSQL, MySQL, BigQuery, Redshift, MongoDB, SQL, NoSQL. MLOps and CI/CD: Infrastructure as code, MFlow, AWS, GCP, Azure, Jenkins, GitHub and TravisCI.

Software Engineering: Java, Javascript, Python (Django), Dart, React Native.

Web Development : HTML, CSS, Javascript, Node.js, Django, React Native.

Visualization: Jupyter, Tableau, Power BI, Streamlit, R shiny, Apache Superset.

Computer Vision: PyTorch and OpenCV, Lidar.

Natural Language Processing: NLTK, spacy, TensorFlow.

Experiences

10 ACADEMY | Santa Clara, CA

– Aug 2022

Apr 2022

Machine Learning / Data Engineer Consultant/Tutor

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Acted as a go-to guy for 37 junior data engineers, assisting in building data-sets that underpin machine learning

models and designing a real-time data pipeline that fastened semi-structured data processing.

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Instituted a project-based learning approach among data engineering trainees by enabling them to ingest data

from multiple third-party APIs on real-world projects.

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Built top talented, tech-savvy data engineers through comprehensive and data-driven technological training

that equipped them with machine learning, data engineering, and web3 skills for job readiness.

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Empowered and challenged students to embrace data engineering projects by helping them translate data transformation requirements into descriptions, tools, and processes.

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Liaised with data engineers to expand and optimize data and pipeline architecture; taught students how to

make well-reasoned business decisions fueled by new data.

Skills: Sandboxing · web3 · React Native · 3D Visualization · Amazon Web Services (AWS) · Docker ·

MLOps · Statistical Data Analysis · Deep Learning · Apache Kafka · Apache Airflow · Natural

Language

Processing (NLP) · Machine Learning · Data Engineering · Web3 · Data Analytic · Machine Learning Algorithms

AFRICAN VOICES FOUNDATION | Nairobi, Kenya

Mar 2022

Nov 2021 –

Research Analyst

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Engineered a data pipeline that ingested data from multiple sources using Google Analytic APIs across

billions of rows of data.

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Automated ETL processes make it easier to wrangle data and reduce time to upload and manual workload by

half.

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Designed, developed and maintained scalable, insightful data tables, which acted as the primary input for

analysis models, reports, and dashboards.

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Created superior functionality across data systems by automating testing of pipelines and scheduling tasks to

validate the organization's assumptions about data and write logic to prevent issues from working downstream.

Skills: MySQL · DBT · Docker · Extract, Transform, Load (ETL) · Apache Kafka · Apache Airflow ·

Pipelines · Data Engineering · Python (Programming Language) · Data Analysis

Volunteer Services

Omdena

Omdena Website

Junior ML Engineer

Sleepiz challenge on Omdena where I was writing codes to solve the problem of sleeping cycles of children and the vulnerable in the society

and that is the old as well.

2021

Oct. 2021 –Dec.

References

- Arun Sharma | Founder, CEO, 10 Academy | arun@10academy.org | +4917670766618
- Dr Lucas Malla|Statistician, London School | Consultant, Africa's Voice Foundation | lucasmaking@yahoo.com | +254718549914
- Dr. Robert Kiplimo | Senior Lecturer JKUAT | robertkiplimo@gmail.com | +254708503849