

# FRANCIS NDARUGA

## Data Analyst & Engineer

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Nairobi, Kenya

### Summary

A detail-oriented developer with a proven track record of success in delivering actionable data pipelines and insights. Expertise in ETL processes and data visualization tools, as well as experience in database management and data modeling. Excellent communicator and collaborator, able to present findings clearly and concisely.

### Skills

- **Programming languages:** Python, R, SQL, Java, C, C++,
- **Database Tools:** PostgreSQL, MongoDB, SQL Server,
- **General tools:** AWS cloud, Microsoft Azure, Docker, Git, Terraform, Ansible
- **Visualization tools:** Power BI, Tableau, Kibana, Grafana,
- **Big Data and Analytics tools:** Snowflake, Databricks, Kafka, Hadoop, Azure Synapse,

### Experience

#### Data and Analytics Engineer - Freelance

Jan 2022 - Current

Upwork Inc.

- Uncovered hidden trends in different data sources as provided by Companies and clients by crafting custom data analysis scripts, reports and dashboards.
- Built data pipelines processing upto 1TB of data daily, that streamlined research efforts and saving averagely 20 hours per week for the respective research teams.
- Managed cloud-based data infrastructures, reducing costs by 15% through resource optimization.

#### Data Engineer and Machine Learning - Attaché`

Apr 2022 - Aug 2022

Kenya Marine and Fisheries Research Institute - Mombasa Kenya

- Analyzed up to 1 million fish and marine life data points to identify patterns in living, breeding, migration and feeding behavior, which increased research programs efficiency by more than 20%.
- Developed two Machine Learning systems that classified fish species with a 92% accuracy
- Implemented data workflows on AWS and Azure platforms that automated research data processing, saving the company 10 hours per week.

#### Data Analyst - Volunteer

Apr 2021 - Aug 2021

County Government of Nyeri, Department of Agriculture Livestock and Fisheries

- Analyzed farmer data to identify 10,000 eligible candidates for government support in farming, with a 90% accuracy rate.
- Used GIS software to map farmers and visualize agricultural patterns, identifying areas of high agricultural productivity. This helped to target government support more effectively.
- Integrated external data sources to enrich analytical capabilities and provide a holistic view of the farming landscape, resulting in a 10% increase in the effectiveness of government support programs.

### Education



- **Bachelor of Science, Computer Science**  
Chuka University - Tharaka-Nithi, Kenya

Sep 2019 - April 2023

- **ALX Software Engineering Programme,**  
Data Engineering and Analytics ALX Africa

Oct 2022 - Nov 2023

### Footprint and Repositories

- Github  : [github.com/Ndaruga](https://github.com/Ndaruga)
- Medium  : [medium.com/@Ndaruga](https://medium.com/@Ndaruga)