NORBERT J. ONYANGO

DATA SCIENTIST

CONTACT

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EDUCATION

- **Bachelor of Economics and Statistics, Second Class Honours** – The University of Nairobi, Kenya
- **St Joseph's School Rapogi – KCSE (Grade A)**

RECENT PROJECTS

- **Kenyan Vehicle Spare Parts Prices**
- **AI Driven Vehicle Damage Detection Web APP**

CERTIFICATIONS

- **Advanced Data Analysis:** Python, R, SAS (certified)
- **Executive Certificate of Proficiency in Insurance** – College of Insurance
- **Business Intelligence:** Google-certified
- **Project Management:** Google-certified

KEY SKILLS

- **Programming Languages & Tools**: Python, R (Tidyverse, Dplyr, Shiny), SQL/NoSQL, GitHub

PROFILE

Detail-oriented Data Scientist with 6 years of experience in developing and deploying advanced machine learning and deep learning models to solve complex business challenges. Skilled in Python, SQL, and cloud platforms (AWS, Azure, GCP), with hands-on expertise in frameworks like TensorFlow, PyTorch, and Keras. Proven ability to analyze large datasets, uncover actionable insights, and deliver data-driven solutions through collaboration with cross-functional teams. Adept at managing image annotation processes, optimizing cloud infrastructure, and deploying production-ready models. Strong communicator, committed to transforming data into strategic value while staying updated on the latest advancements in the field.

EXPERIENCE

Lead Data Scientist, Innovex Solutions (July 2024 – April, 2025)

- Spearheaded AI-driven automation in insurance claims processing using Python, TensorFlow, PyTorch, and Computer Vision for vehicle parts and damage detection.
- Led the development of predictive analytics models leveraging Machine Learning, Forecasting, and SQL to enhance claims accuracy and mitigate cost leakage.
- Managed end-to-end Computer Vision projects, handling data annotation using AWS, Azure, and GCP, model training with Deep Learning frameworks (Keras, TensorFlow, PyTorch), and cloud-based deployment.
- Mentored a team of data scientists, ensuring proficiency in Python, Data Analysis, and Machine Learning.
- Designed and deployed machine learning models for latent defect detection, leveraging Big Data, NoSQL, and Cloud computing.
- Integrated AI solutions into Flask, Django, and FastAPI applications, improving scalability and performance.
- Managed cloud-based AI infrastructure (AWS, Azure, GCP) to support scalable deployment of insurance analytics solutions.
- Developed interactive dashboards using Power BI and Tableau to provide real-time insights for claims assessment.
- Presented insights and technical findings, bridging GitHub workflows and AI innovations with business decision-making.

- **Python Web Frameworks**: FastAPI, Django, Flask
- **Data Science & Machine Learning**: Machine Learning Algorithms, Deep Learning Frameworks (YOLO, TensorFlow, PyTorch), Model Development and Deployment
- **Cloud Computing**: AWS, Azure, Data Pipeline Development
- **Visualization & Dashboarding**: Tableau, Power BI, Excel, Shiny, Dash
- **Data Collection & Management**: REDCap, Kobo, ODK
- **Big Data Technologies**: Hadoop, Spark
- **Project & Workflow Management**: Dashboard Development/Maintenance, Version Control, Workflow Optimization

INTERESTS

- Traveling and socializing
- Participating in group activities
- Reading and self-improvement

REFEREES

Available upon request

Senior Analyst (M&E Expert), L-IFT BV (2021-2024)

- Conducted large-scale data analysis using Python, R, and SQL, ensuring accuracy and reliability in research findings.
- Designed and implemented data collection tools utilizing AWS and Azure, improving data quality and consistency.
- Performed statistical analysis with Machine Learning, Big Data, and Forecasting techniques to generate insights.
- Built dashboards and reports in Power BI and Tableau, enabling real-time program tracking and decision-making.
- Led the integration of NoSQL databases to enhance data storage and retrieval efficiency.
- Trained and mentored junior analysts in Data Analysis, Machine Learning, and GitHub version control.
- Ensured compliance with research ethics, data confidentiality, and informed consent protocols.

Junior Analyst, L-IFT BV (2019-2021)

- Processed and cleaned large datasets using Python, R, SQL, and Big Data frameworks.
- Developed and optimized algorithms using Machine Learning and Deep Learning (Keras, PyTorch, TensorFlow) to identify data inconsistencies and enhance data quality.
- Built cashflow forecasting models integrated into FINBIT, leveraging Forecasting, Cloud Computing (AWS, GCP), and SQL.
- Conducted exploratory data analysis, utilizing Tableau and Power BI to identify trends and patterns.
- Developed data integration pipelines using FastAPI and Flask for automated data processing.
- Supported the development of research reports and policy briefs using insights from Big Data and Machine Learning.
- Participated in GitHub version control workflows to maintain reproducibility and data security in research outputs.