Davies Njogu Kabiro

Data Scientist/ Data Engineer

Contact

daviesnjogu@gmail.com

(+254) 115-746131

Nairobi, Kenya

linkedin.com/in/kabirodavies

github.com/kabirodavies

Education

Data Science

ExploreAI Academy

April 2021 – March 2022

Bachelor of Science: Information Technology

Meru University of Science and Technology (MUST)

Jan 2013 – Dec 2016

Diploma: Information Technology

Meru University of Science and Technology (MUST)

Jan 2010 – Dec 2012

Technical Skills

Programming: Python, JavaScript, Java, Scala, R, PySpark

Databases: (MySQL, Maria DB, SQL Server, PostgreSQL, Aurora, AWS RDS, Redshift, PostgreSQL, Redshift, Big Query)

NoSQL (MongoDB, Dynamo DB)

ETL & Big Data Frameworks: (Airflow, Glue, EMR, Spark, Kafka)

Cloud: AWS, GCP, Azure

Machine Learning: (Classification, Regression, Clustering, Anomaly detection, Dimensionality reduction, NLP)

Professional Summary

Data Scientist with expertise in data analysis and data engineering. Leveraging advanced statistical and machine learning techniques to uncover insights and drive business solutions. Strong ability to translate complex data findings into actionable recommendations for various stakeholders. Proficient in Python, R, SQL, and big data technologies such as Hadoop and Spark. Additionally, I have a comprehensive understanding of computer science principles and concepts.

Professional Experience

Data Science Fellow – Civic Tech Fellowship

Code for Africa (CfA) (Remote)

April 2023 –

Data Scientist

Freelance

November 2022 - current

- Conducted exploratory analysis on customer feedback data, identifying key areas for improvement that resulted in a 12% reduction in product return rates.

- Utilized machine learning algorithms to analyze customer purchase behavior, generating insights that led to a 10% increase in cross-selling across all product categories.

- Collaborated with the marketing team to develop targeted promotions based on customer purchase patterns, increasing customer loyalty program sign-ups

- Implemented Docker and Kubernetes to deploy applications, resulting in a 30% reduction in server costs.

- Developed comprehensive documentation for the pipeline integration process, resulting in a 50% reduction in the time required for new team members to onboard.

- Authored detailed technical reports for executive leadership, providing actionable insights on key metrics such as user retention, churn rate, and lifetime value.

Junior Data Scientist

Explore AI South Africa, (Remote)

March 2022 – October 2022

- Leveraged statistical modeling to analyze customer behavior and segmentations for a leading retail company, resulting in a 15% increase in customer retention and improved marketing strategies.

- Developed and tested machine learning models using Python to predict load shortfall with 95% accuracy and leveraged statistical models to identify the cause.

- Utilized Trello and Jira project management tools to track project progress and ensure timely completion of deliverables.

Probability and Statistics: Descriptive, Inferential, and Probability Distributions, Regressions, Hypothesis Testing, Correlation, A/B Testing, Time Series Analysis, Central Tendency

BI Tools: (Power BI, Tableau, Google Data Studio)

Microsoft Office: Excel, Google Sheets

Operating Systems: Windows, Linux

Certifications
Udacity - Cloud Developer

Amazon Web Services – AWS Certified Cloud Practitioner

AWS Certified DevOps Engineer Professional

Udemy - Spark and Python for Big Data with Pyspark

Data Camp - Machine Learning

Corporate Finance Institute - Professional Ethics

CISCO - CCNA 1 Certification

CISCO – IT Essentials: PC Hardware & Software

Soft Skills
Creativity, problem-solving, Critical Thinking, Leadership, Communication Skills, Collaborative, Adaptability, Curiosity, Reflection, Research, Attention to detail, and Teamwork

- Developed and executed ETL processes to extract data from different sources, resulting in a 40% increase in data accessibility for fraud prevention.
- Managed a team of data scientists in effectively communicating project goals, timelines, and progress updates through Discord and Slack, while utilizing Jira for task management. This resulted in streamlined communication channels and enhanced team collaboration, ultimately achieving successful task completion within set deadlines.
- Authored detailed technical reports outlining key findings from data analysis using Python programming language, providing valuable insights to support strategic decision-making.
- Developed machine learning models using Python to optimize customer segmentation, resulting in a 20% increase in targeted marketing efficiency.
- Continuously improved an existing model by implementing various techniques, such as principal component analysis (PCA), resulting in a 12% increase in accuracy and a 25% reduction in computation time, demonstrating a commitment to enhancing model performance through continuous improvement.
- Collaborated with cross-functional teams to identify key metrics for measuring the success of strategic initiatives, utilizing data visualization tools to communicate results effectively to executive stakeholders.
- Excellent written communication skills demonstrated through the ability to write clear and concise emails, reports, and other business documents.

Systems Administrator
Loreto Institute, Termination of Female Genital Mutilation (TFGM) Project
(Nairobi, Kenya)
May 2016 – February 2022

- Collaborated with cross-functional teams to identify key metrics for measuring the success of strategic initiatives, utilizing data visualization tools to communicate results effectively to executive stakeholders.
- Developed a dynamic web application with a custom built CMS, driving page views up by 40% and improving website usability by 70%.
- Developed and managed data warehouses and data lakes to house structured and unstructured data for reporting and analytics, increasing reporting accuracy by 50%.
- Utilized SEM and organic search techniques to increase website organic traffic by 20%, improving organic click-through rate (CTR) by 10%.
- Implemented a proactive monitoring system, reducing the number of technical issues by 40% and improving system uptime. resulting in increased employee productivity.
- Created eye-catching seminar materials using Photoshop and Canva, resulting in a 40% increase in attendee engagement.
- Conducted thorough analyses of business requirements to inform technical solutions that aligned with organizational goals, resulting in a 30% increase in IT initiative success rate.
- Developed and deployed customized software applications for internal use, resulting in a 30% increase in productivity.
- Applied basic analytical skills to identify key trends and patterns within the dataset, enabling the development of targeted seminars and events.

Data Annotator

[CloudFactory](#) – Kenya (Remote)
May 2018 – July 2020

- Managed a team of 10 data labelers to annotate images for an image recognition project with an average accuracy rate of over 95%.

- Worked independently and collaboratively with team members to achieve project goals.

- Maintained high levels of accuracy and quality while working efficiently to meet tight deadlines.

- Successfully completed annotation tasks such as object detection, segmentation, transcription, and captioning.

Web and IT Solutions Developer

Techurve Solutions, (Self-employed)
January 2016 – February 2020 / Meru Kenya

- Developed and deployed multiple web applications using various CMS technologies, including WordPress, and web frameworks like Django, resulting in a 30% improvement in website loading times and a 20% increase in user engagement and satisfaction.

- Installed and configured security systems, including CCTV and network-based solutions, as well as conducted network and internet installations for multiple clients, resulting in improved security and network connectivity for businesses and organizations.

- Installed and configured various information systems, and provided comprehensive user training to ensure seamless adoption and optimal utilization of the systems.

- Provided robust software solutions to clients on time and within budget.

- Provided technical support for computer hardware and software, diagnosing and repairing various issues to minimize downtime and optimize system performance for clients.

Presiding Officer

[Independent Electoral and Boundaries Commission](#) – Kenya (Onsite)
July 2017 – August 2017

- Ensured fair and impartial conduct of voting processes and procedures.
- Managed polling stations, including overseeing the setup and operation of equipment, managing staff, and resolving any issues that arose during the voting process.

- Coordinated with election officials, law enforcement, and other relevant parties to ensure the smooth and efficient functioning of the election process.

- Maintained accurate and comprehensive records of all voting procedures, ensuring compliance with applicable laws and regulations.

IT Support Specialist – Internship

[Kenya Methodist University](#) – Kenya (Onsite)
April 2014 – August 2014

- Provided end-to-end IT support to staff and students, promptly resolving IT-related queries and issues.
- Conducted end-user training sessions to enhance their knowledge and understanding of hardware and software programs.
- Investigated and resolved logged errors in a timely and efficient manner, ensuring minimal downtime and high system availability.
- Monitored hardware, software, and system performance metrics proactively, managed software updates, hardware upgrades, and system maintenance to ensure optimal performance, security, and reliability of IT systems, documented IT-related processes, and performed diagnostic tests to identify and resolve system vulnerabilities and performance issues.

Volunteer Experience

IT Support/ Data Analyst

Centre for Health, Advocacy, Gender & Education Initiative - Nairobi, Kenya (Hybrid)

March 2019 - current

- Utilize business intelligence tools to analyze and interpret complex data sets, producing actionable insights that directly contributed to a 20% reduction in operational costs.
- Provide technical support to users for software, hardware, and network-related issues, ensuring minimal downtime and high system availability.
- Install and configure computer hardware, software, and peripherals to meet the needs of the organization and its users.
- Proactively maintain network connectivity and promptly resolve issues to prevent disruptions to critical systems and applications.
- Maintain documentation and inventories of IT assets, ensuring accurate tracking and reporting of IT-related resources.
- Train users on the use of new technology and software, enhancing their productivity and effectiveness.
- Collaborate with other volunteers to identify and answer key questions about the organization's programs, services, and impact, ensuring that the organization is fulfilling its mission and meeting the needs of its stakeholders.
- Help maintain databases and data repositories, ensuring that critical data is accurate, up-to-date, and easily accessible.
- Communicate findings and recommendations to non-technical stakeholders in a clear and concise manner, ensuring that technical insights are accessible and actionable to all stakeholders.

Referees available on request