

DAVIES NJOGU

Data Scientist | Data Engineer | Software Developer

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PROFESSIONAL SUMMARY

Data Scientist with expertise in advanced analytics, data engineering, and transforming complex findings into actionable insights. I am proficient in data science and engineering, with a strong background in machine learning and computer science principles. Possess an entrepreneurial spirit, seeking opportunities for growth.

PROFESSIONAL EXPERIENCE

Ministry of Education, Digital Literacy Program | IT Officer May 2024 - Present

- Spearheaded the Digital Literacy Programme to integrate ICT across all educational levels, fostering a rich digital learning environment.
- Provided training and support to team members on data tools and best practices, fostering a culture of data literacy.

Code for Africa, Remote | Data Science Fellowship April 2023 – November 2023

- Created interactive dashboards using Power BI/Tableau to visualize key performance indicators (KPIs) for senior leadership, resulting in more informed decision-making.
- Automated routine data cleaning and report generation tasks using Python/R, saving approximately hours of work for the program team.
- Collaborated closely with colleagues to design and produce compelling data visualizations using Canva, transforming complex datasets into easily digestible infographics and charts for diverse stakeholders.

Upwork, Remote | Freelance Data Scientist November 2022 - Present

- 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.
- Utilized statistical modeling techniques to drive data-driven decision-making and enhance insights.
- Utilized Python scripting in conjunction with Mage and GCP services to orchestrate data workflows, automate data processing tasks, and manage data workflows, resulting in increased data processing speed and reduced manual intervention.
- Authored detailed technical reports for executive leadership, providing actionable insights on key metrics.

- Authored detailed reports for executives, providing actionable insights on key metrics.
- Successfully tackled complex optimization and unsupervised learning challenges, leading to actionable insights and improved decision-making.
- Demonstrated proficiency in optimizing data processes, resulting in enhanced data quality and more efficient workflows.
- Leveraged SQL to extract and manipulate data from various sources, ensuring data accuracy and integrity.
- Designed and implemented custom APIs to facilitate data integration and streamline communication between different systems.
- Utilized AWS products such as RDS, EC2, and Lambda to build scalable and cost-effective data solutions, contributing to the overall success of projects.
- Developed and tested Python-based machine learning models, achieving 95% accuracy in predicting load shortfalls and identifying root causes.
- Managed project progress with Trello and Jira, ensuring on-time deliverables.
- Led a data science team, optimizing collaboration through Discord, Slack, and Jira, meeting deadlines efficiently.
- Exhibited a self-starter mindset, approaching challenges with an open mind, and consistently delivering effective solutions and outcomes.
- Collaborated with cross-functional teams, employing data visualization to communicate results to executives effectively.
- Demonstrated excellent oral and written communication skills in emails, reports, business documents, and presentations to stakeholders.

- Collaborated with teams to define key success metrics, effectively conveying results to executives through data visualization.
- Designed and implemented a dynamic web application with a custom content management system (CMS).
- Acquired experience in Git version control and agile development methodologies.
- Utilized SEM and organic search techniques, boosting organic traffic by 20% and click-through rate (CTR) by 10%.
- Implemented proactive monitoring, reducing technical issues by 40% and enhancing system uptime for increased productivity.
- Designed engaging seminar materials using Photoshop and Canva, resulting in a 40% rise in attendee engagement.
- Analyzed business requirements to align technical solutions with organizational goals, leading to a 30% higher IT initiative success rate.
- Developed and deployed custom software applications, increasing internal productivity by 30%.
- Applied analytical skills to identify key trends, facilitating targeted seminar and event development.

CloudFactory, Location | Data Annotator

May 2018 – July 2020

- Excellent written communication skills demonstrated through the ability to write clear and concise emails, reports, and other business documents.
- 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.

IEBC, Kenya | Presiding Officer

July 2017 – August 2017

- Provided end-to-end IT support to staff and students, promptly resolving IT-related queries and issues.
- 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.

Kenya Methodist University, Meru, Kenya | IT Support Internship

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.
- Documented IT-related processes, and performed diagnostic tests to identify and resolve system vulnerabilities and performance issues.
- 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.

EDUCATION

Data Science - ExploreAI Academy | South Africa - 2022

Bachelor of Science in Information Technology - Meru University of Science and Technology | Kenya – 2016

Diploma in Information Technology - Meru University of Science and Technology | Kenya – 2013

CERTIFICATIONS

- Udacity - Cloud Developer
- Amazon Web Services – AWS Certified Cloud Practitioner
- 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 and Software

SKILLS

- Programming: Python, JavaScript, R, PySpark, JavaScript, TypeScript
- Databases: (MySQL, Maria DB, SQL Server, PostgreSQL, Aurora, AWS RDS, Redshift, PostgreSQL, Redshift, Big Query, MongoDB, Dynamo DB)
- ETL & Big Data Frameworks: (Airflow, Glue, EMR, Spark, Kafka, Mage)
- Cloud Services: amazon web services and google cloud platform
- Machine Learning: (Classification, Regression, Clustering, Anomaly detection, Dimensionality reduction, NLP)
- 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)
- Frameworks: Django, Nextjs
- Microsoft Office: Excel, Google Sheets
- Operating Systems: Windows, Linux
- Proficient in report writing.
- Proficient in solving complex problems through innovative approaches.