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Top Skills

Microsoft Azure
Microsoft Power BI
PyTorch

Languages

Kiswahili
English

Certifications

Python Developer Certification

Joshua Oluoch

Head Of Research at Radio Africa Group | Data Scientist | Machine Learning Expert| Data Science Tutor at Huru School Kenya

Summary

Experienced Data Scientist and Python Developer with 11 years of expertise in data science, data analytics, and Python development, combined with 3 years of managerial experience.

Proven track record of delivering impactful data-driven solutions to complex business challenges. Strong technical skills in data analysis, statistical modeling, machine learning, and data visualization.

Proficient in Python, R, SQL, and other data manipulation tools. Excellent communication and leadership skills, with a demonstrated ability to lead cross-functional teams and drive results.

Experience

Radio Africa Group

10 years 2 months

Research and Analyst Lead

November 2020 - Present (5 years 1 month)

Nairobi, Kenya

As the Research and Analyst Lead at Radio Africa Limited, a leading media company in Kenya, I have been instrumental in transforming the analytical processes of the department, driving data-driven decision-making, and leveraging advanced analytics tools to enhance research and analysis capabilities.

My key achievements in this role include:

Transforming Analytical Processes:

Introduced and implemented advanced analytics tools such as Python, R, Looker, Tableau, Python Dash, Power BI, and machine learning models to the department's analytics workflow, enabling more sophisticated data

analysis and visualization, resulting in more accurate and actionable insights for business decision-making.

Developed custom analytics solutions using Python and R to automate data processing, analysis, and visualization tasks, reducing manual effort by 40% and increasing efficiency in delivering insights and recommendations.

Improving Research Processes:

Enhancing Predictive Modeling for Digital User Retention:

Developed and implemented predictive models using machine learning techniques to analyze user behavior data and identify patterns and trends that contribute to digital user retention.

Utilized predictive modeling to optimize retention strategies, resulting in increased user retention rates by 20% and improved customer engagement in digital platforms.

Achievements:

Received recognition for outstanding performance and contribution to the department's analytics capabilities, including the successful implementation of advanced analytics tools and techniques.

Presented research findings and data-driven insights to senior management and key stakeholders, influencing strategic decision-making and driving business growth.

Senior Data Analyst

October 2015 - April 2023 (7 years 7 months)

Westlands, Nairobi

As a Senior Data Analyst in transforming the organization's data analytics capabilities and revolutionizing their data management processes.

Roles:

Transforming Visualization:

Created dynamic and visually appealing dashboards and reports using advanced data visualization tools such as Tableau, providing key insights and actionable recommendations to senior management.

Streamlined data visualization processes by introducing best practices and implementing automated reporting mechanisms, reducing time spent on manual report generation by 50%.

Building ETL Tools for Data Management:

Developed and implemented ETL (Extract, Transform, Load) processes using Python, R, and SQL to extract data from multiple sources, cleanse and

transform it, and load it into the data warehouse, resulting in more accurate and reliable data for analysis.

Designed and implemented automated data validation and data quality checks to ensure data integrity, reducing data errors by 30% and improving overall data accuracy.

Transforming Department Analytics from Excel to Advanced Tools:

Spearheaded the transition from Excel-based analytics to advanced analytics tools such as Python, R, Tableau, and SQL, enabling the team to conduct more sophisticated data analysis and generate actionable insights for various departments within the organization.

Conducted comprehensive training programs for team members on using advanced analytics tools, resulting in increased data literacy and improved analytics capabilities among the team.

Achievements:

Led a cross-functional team in implementing a data-driven decision-making culture within the organization, resulting in improved business performance and increased revenue by 15% over a two-year period.

Successfully completed multiple complex data analytics projects, including market research, customer segmentation, and campaign optimization, resulting in improved marketing strategies and increased customer engagement.

HURU School

Data Science Tutor

April 2021 - Present (4 years 8 months)

Vermont, United States

- Develop and maintain the Data Science syllabus for the organization, keeping up with the latest innovations of the Data Science field.
- Develop and maintain R/Python/Julia/SQL/Apache Spark/ scripts and codes for use during the classes.
- Deliver practical data science lectures for at least 4.5 hours a week for a 4 month Picodegree course.
- Give weekly assessments and report feedback to students on a weekly basis.

Bridge International Academies

Data Analyst, Operations

July 2015 - October 2015 (4 months)

Nairobi

As a Data Analyst at Bridge International Academies, I was responsible for transforming and standardizing analytical processes through writing maintainable R and Python codes, as well as Excel templates. I also played a key role in building departmental Key Performance Indicator (KPI) dashboards for quick visualization of the company's position. In addition, I was actively involved in research when setting up new schools, providing valuable insights and data-driven recommendations.

Achievements:

Successfully transformed and standardized analytical processes through the implementation of maintainable R and Python codes and Excel templates, resulting in improved efficiency and accuracy in data analysis.

Built departmental KPI dashboards that provided quick and easy visualization of performance metrics, enabling stakeholders to make informed decisions in a timely manner.

Played a key role in the research and setup of new schools, providing valuable insights and data-driven recommendations that contributed to the successful launch of new initiatives.

Received positive feedback from cross-functional teams for providing timely and accurate data analysis and insights that informed decision-making and supported various projects and initiatives.

ACTSERV - Actuarial Services (E.A) Ltd

Data Analyst/Python Developer

July 2013 - July 2015 (2 years 1 month)

Nairobi, Kenya

As a Data Analyst/Python Developer at Actuarial Services (East Africa) Limited, a leading Actuarial services provider in Africa, I specialized in big data analytics, handling large datasets of 10 million rows and above using Python, R, and Hadoop. I also developed a reserving tool in R and Python that was widely used by insurance companies for accurate and efficient actuarial calculations. In addition, I built and maintained software primarily using Python, contributing to the company's technical capabilities and delivering high-quality solutions.

Achievements:

Successfully handled and analyzed large datasets of 10 million rows and above using Python, R, and Hadoop, providing accurate and timely insights for actuarial assessments and risk evaluations.

Developed a reserving tool in R and Python that was widely used by insurance companies, significantly improving the efficiency and accuracy of actuarial calculations.

Built and maintained software applications primarily using Python, contributing to the technical capabilities of the organization and delivering high-quality solutions for internal and external clients.

Received positive feedback from stakeholders for providing accurate and actionable data-driven insights and recommendations that informed decision-making and contributed to improved risk management strategies.

CIC Insurance Group

Industrial attachment

July 2012 - September 2012 (3 months)

Nairobi Upper Hill

Micro credit policy schedule data entry

Loading of risks schedules (Micro credit and loan guard policies)

Preparing of debit notes, costing schedules and policy documents for sending them to clients.

Bima ya jamii policy renewals in the company's TURN QUEST system.

Preparing and sending bima ya jamii payrolls to NHIF.

CIC-NHIF remittance cheques processing.

Scanning, filing and sending endorsements to clients.

Receiving calls from clients and calling them back as advised.

Directing, assisting and advising walk in clients.

Education

Maseno University

Bachelor of Science (Actuarial Science with IT), Actuarial Science · (2008 - 2012)

Maseno University

Bachelor's Degree, Bachelor of Science, Actuarial Science with Information Technology · (2008 - 2012)