

Nicholas Musau

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Website:

I'm a self-motivated, team player, responsible data specialist experienced in qualitative and quantitative data collection and analysis, with great presentation skills. Have outstanding skills in solving analytical problems, effectively communicate methodologies and results. I can draw inferences and conclusions, create dashboards and visualizations of processed data, identify trends, anomalies, while working closely with internal stakeholders. I adopt best practices in reporting and analysis, data integrity, test design, validation, and documentation.

Education and Professional Certifications

Education

2018-2021: Bsc Business Information Technology Jomo Kenyatta University of Agriculture and Technology

2012-2014: Diploma Computer Science Jomo Kenyatta University of Agriculture and Technology

Professional Certifications

Introduction to Sustainable Finance Certification: UNEP FI

Principles of Sustainable Finance Erasmus University Rotterdam

Data Scientist Mastery: IBM Corporation

Project Management Professional (PMP) Certified: Charles Sturt University

GDPR Data Protection Officer Certified: University of Derby (UK)

Work Experience

Business Performance Analyst Family Bank Limited (2022 to Present)

Design, develop and deliver scalable product and performance analysis tools to enable seamless data exploration and analytics experience for internal stakeholders.

Utilize data mining and quantitative analysis to understand customer behavior with interactive reporting dashboards. Acquire various data sources to facilitate holistic advanced financial modelling analysis for better decision-making. Perform process automation, operational strategy, govern score cards and models to monitor model performance, reporting, analysis, data integrity, test design, documentation and validation.

Aid in translating business strategy into financial impact and expected results which include identifying risks and opportunities, front and back office requirements

Achievement:

- Developed green customer Service ratings on all audit and risk & control assessments, this reduced cost by 3 percent
- Reduced performance analysis and reporting TAT monitoring and management from 20 days to 6 days.
- Streamlined the sales pipeline data capturing, processing and reporting for managerial decision making which enhanced sales monitoring and increased banks sales by 40 percent
- Contributed to Data Warehouse system analysis and development which enhanced business intelligence daily and weekly reporting by 60 percent
- Contributed to automation of internal projects which enhanced efficiency and customer experience by 34 percent.
- Conducted Root Cause Analysis and identified 3 business improvement opportunities which increased overall revenue by 5 percent

Business Systems Analyst at AfricanHoney Consortium (2021-2022)

Collected customer requirements, performed analysis and communicate them to developer team.

Formulate, produced functional designs and wireframes of system solutions.

Perform system testing and mapping, customer training and support.

Assess options for process improvement, including business process modelling

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Maintained documentations for various projects, process and operations

Worked collaboratively with project managers and cross-functional teams

Achievement:

- Led requirement gathering and review meetings with engineering team which improved system performance by 50 percent
- Performed system testing and reporting to the engineering team which reduced system failure by 20 percent
- Prepared and wrote User Testing Script to system users which increased customer experience by 78 percent
- Worked closely with product owners/stakeholders and identified 3 opportunities to exploit which could increase company revenues by 40 percent

Junior ML Engineer at Omdena (Remote): (2020-2021)

Developed machine learning models, experienced in analytics, data science, data engineering, business intelligence.

Experience writing and optimizing SQL queries in a business environment with large-scale, complex datasets.

Coding proficiency Python, and using Jupyter notebook to conduct reproducible data analysis and modeling projects.

Achievement:

- Developed data cleaning code which reduced the time taken to create the final model by 40 percent.
- Identified various data collection sources for business needs.
- Analyzed large and complex data to forecast trends and provide reports with recommendations
- Collaborating with business, engineering, and product teams for a unified business goal achievement.
- Formulated business hypothesis and assumptions and discussed with the project stakeholders for future improvement of their business model.
- Communicating verbally and in writing to business customers and sharing insights and recommendations

IT Technical Support Rural Electrification and Renewable Energy Corporation (2014-2015)

Performed network maintenance and computer repair that increased employees' productivity.

Serve as liaison between the product and technical teams to achieve company goals while building models to identify trends, forecast performance, and identify improvements to company strategy, products, and operations.

Community Contribution and Participation

[AWS Community Builder:](#)

Voluntarily offer their support to developer communities, companies, and tech-enthusiasts by training, speaking at events, mentoring, and publishing content.

[Deeplearning.ai Ambassador:](#)

Organize Pie & Ai Meetups to train and share knowledge of developments of Artificial Intelligence to deep learning communities, where more than 2000 attendees have benefited from our events.

Projects

[Impact of economic Inflation in Africa](#) This is a Tableau project to understand the economic situation in Africa.

[Order Sales Analysis](#) This is a SQL Analysis business performance on various products.

[Order Sales Analysis](#) This is Amazon QuickSight project to understand business performance.

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Skills

Experience in Big Data technologies and scripting with Python, SQL, Excel, and Tableau, Amazon QuickSight, Git, Version Control, Postgresql, MySQL, SQL Server AND Open Data Kit (ODK)

Applied Science (Publications)

A Review of Predictive Analytic Techniques for Diabetes Prevalence. By: Nicholas Musau, Josiah Ochieng Kuja (<https://innspub.net/ijbb/review-predictive-analysis-techniques-diabetes-prevalence/>)

Technology Behind Low Cost the Development of a Low-Cost Spectra Imaging for Early Disease Analysis in Crops. By: Bronson Eran'ogwa, Masibo Thomas, Elias Baya and Nicholas Musau (https://www.researchgate.net/publication/337669675_Technology_behind_the_development_of_a_low-cost_spectral_imaging_for_early_disease_analysis_in_crops)

Portfolio/ Case Studies

All Projects Link [Nicholas — Hashnode](#)

Impact of Economic Inflation in Africa

[Business Analysis \(hashnode.dev\)](#)

Business Problem

An investment company XYZ, wanted an expert to use analytical skills to evaluate the performance of African Countries' GDP over the years. A business analyst would help the company *identify opportunities of investment, discover performance of the existing investment and reduce the time taken every time they want to understand the business performance*. The management could use the solution in product rating and reviews, while developing metrics for continuous product improvement. Advanced data preparation and modelling skills were required to automate the repetitive process by creating interactive dashboards and reports. The final solution would have a positive impact to the management in that, decision makers can make informed decisions on the strategies to build economic development activities for the general country growth and sustainability.

Approach

The initial step was business understanding and project requirements then collect the required data. Secondly, I planned a design direction while reviewing the design and specifications for changes that affect respective modules. I could propose the best analytical software for the project and work closely with cross-functional teams for product enhancement to ensure project controls are in place.

Solution

With deep analytical background, and skills in business intelligent tools I created an automated Tableau dashboard for the state of African economy while paying attention to details and specific business questions. My ability to make a positive business impact by developing real-time reports enabled XYZ Company to make data driven investment decision to shape the future with low risk. The solution saved the company 40 percent of the time used every month in this analysis, and saved 56 percent losses

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incurred in unprofitable investments. The annual financial reports recorded an increase of 6 percent profits from 3.7 percent of the previous year.

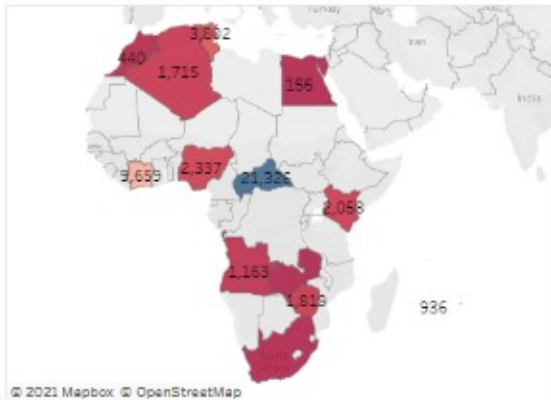
<https://public.tableau.com/app/profile/nicholas7429>

THE STATE OF AFRICAN ECONOMY

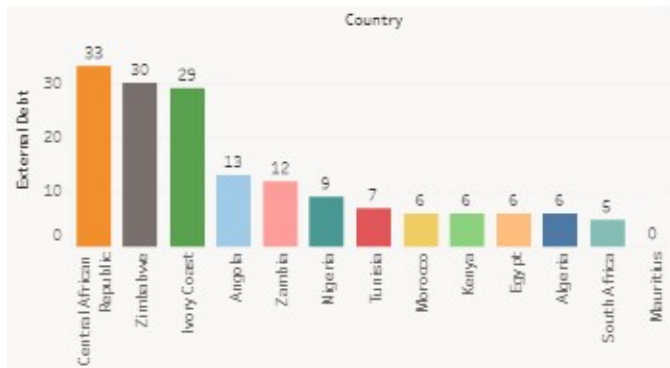
Country's Pivote economic analysis

Country	Domestic	Exch Usd	External D.	Gdp Weigh
Central African Republic	21,326		0	0
Ivory Coast	0	9,659	29	0
Tunisia	3,802		0	0
Nigeria	0	2,337	9	0
Kenya	2,058		0	0
Zimbabwe	30	1,819	30	0
Algeria	1,715		0	1
Angola	12	1,163	13	0
Mauritius	936		0	0
Morocco	0	440	6	1
South Africa	196		0	2

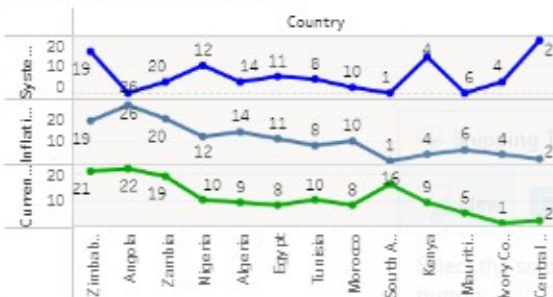
County GDP



Countries' Debt



Countries' Inflation Rate



Automated Nick's Cookie Sales Analysis Dashboard

Business Problem

Nick has an online cookie shop which recently has grown to attract customers from different countries. All the customer, and sales data is available in the database. To remain competitive in a fast-phased industry of cookie sale Nick wanted *to enhance efficiency by understanding customer preferences and experience, identify the profitable cookies, track the daily units sold in an automated manner*. While the problem requires deep analytical mind to lead to timely and insightful financial reporting of financial metrics, the solution ought to be cost effective. The goal is to automate the profit dashboard with accurate data, meaningful analysis and interactive charts which leads to business improvement, operational efficiency and cost reduction.

Approach

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As a self-starter, I independently understood the problem statement, identified data sources, plan project scope, and design the analysis process. I came up with the appropriate tools to achieve the business objective. Experience in SQL for data extraction from the database then creation of ETL pipelines to analytics software was the most cost effective approach. The utilization of automated Excel dashboards helped in developing scalable and efficient processes to support operations. The problem required advanced skills in excel with advanced problem solving, modelling and reporting skills. The final solution could help to derive insights for organizational profitability.

Solution

The final product was a commercially successful automated Excel dashboard which answered multiple business questions in an economical manner. The solution delivered real value for the identified market segment because Nicholas could identify the best markets to concentrate on and the best customers to give discounts on purchase. Additionally, he could refine customer value proposition and competitive positioning for his cookies. The developed solution helped the company to become more profitable by reduced costs, increased revenues and improved organizational efficiency.

Automated Nick's Cookie Sales Analysis Dashboard

[Automated Business Analysis Dashboard \(hashnode.dev\)](https://hashnode.dev)



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