Ooko Silas

Curriculum Vitae

Personal Information

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Professional Summary

Strong background in econometrics, technical support, programming, research, machine learning, and AI. Highly skilled data analyst. Adept at extracting insights from complex datasets and utilizing advanced analytical techniques to drive informed decision making. Has a thorough in-depth knowledge of predictive modeling, data visualization, and statistical models. proficient in programming languages including Python, R, and SQL, and has a track record of creating scalable and effective data analysis solutions.

Objective

To leverage my strong analytical skills, passion for data exploration, and expertise in statistical analysis to contribute to a dynamic organization as a Data Analyst/Scientist. I aim to utilize cutting-edge tools and techniques to extract valuable insights from complex datasets, drive data-informed decision-making, and deliver actionable recommendations that optimize business performance and foster innovation. By leveraging my expertise in data visualization and storytelling, I strive to communicate findings effectively and inspire data-driven strategies that fuel organizational growth and success.

Summary of key skills

↪ Creating and implementing high-quality data collection methodologies and tools, such as data collection forms for impact assessment studies and indicators; programming data collection forms in SurveyCTO, ODK, Kobo Collect, Survey Solutions and other platforms; and data collection and entry templates that automatically detect and fix errors

↪ Planning and carrying out impact assessment studies, including producing evaluation reports, budgets, sampling frameworks and techniques, experimental and quasi-experimental methodologies, and evaluation plans

↪ Expertise with SPSS, R-GUI, STATA, Jamovi, Python, Gretl advanced Excel, and SAS for quantitative and qualitative data analysis

↪ Fluency in using GIS software, tools and applications, such as ArcGIS, MapInfo, and QGIS used to analyse the Geographical distribution of events

Education

2018–2022	**B.Sc. (Bachelor of Science) in Applied Statistics with Computing**, *Maasai Mara University-Kenya (MMU-K)*, Narok,Kenya.
2013–2016	**Kenya Certificate Of Secondary Education (KCSE)**, *St. Aloysius Gonzaga Secondary School*, Langata-Otiende.
2005–2012	**Kenya Certificate Of Primary Education (KCPE)**, *Ramunde Primary School*, Siaya-Kenya.

Technical skills

language Programming	C++,Gretl,Python,R software, Survey solutions
Scripting	JavaScript(jQuery)
Markup	LATEX, HTML, Microsoft suits
Style Sheet	CSS, Java
Databases	Mongo DB, MySQL, Oracle, Smartsheets
Data Analysis	CSPro, SPSS, SAS, STATA, Excel,Python, Minitab, NVIVO, Gretl
Data Visualisation	QGIS, Tableau, SAGA software, Power Bi
Data Collection	ODK, KOBO Toolbox, Survey Solutions
Mapping tools	ArcGIS, MapInfo, and QGIS

Works Experience

Jan 2021–Date **Mirror of Hope CBO** , *Nairobi-Kenya*, *Volunteer Research and Data Assistant*.

Summary

Volunteer Research and Data Assistant at Mirror of Hope CBO, skilled in assisting research projects and data analysis activities that address social challenges and encourage good change. Proficient in a variety of research procedures and statistical approaches for data collection, organization, and analysis. Skilled in using data visualization tools to make findings compelling and understandable.

Roles and duties

1. **Research, Data Management and Collection**
   (a) Analyze large, complex sets of data to produce information that can be used to guide decision-making.
   (b) Use SQL to help with data integration and data quality duties as well as data extraction and modification.
   (c) build data models, database architecture, data access, and table maintenance codes.
   (d) Support the full project lifecycle, including data transformation, analysis, and reporting after the initial requirements have been gathered.
   (e) help our client's data management capabilities and data quality to increase.
   (f) To ensure data quality and correctness, conduct data audits. For stakeholders, create thorough reports and data dashboards.
   (g) Support internal projects and efforts involving AI and data.
2. **Reporting and documentation**
   (a) Ensured high-quality project and programme reporting by quality assuring quarterly and annual progress reports' consistency with organisation's reporting guidelines.
   (b) using specialist tools such as Tableau and PowerBI to present data in visual forms such as dashboards
   (c) working with managers and business analysts to establish briefs for data-related projects
   (d) reporting on data trends, including to non-expert colleagues

Jan 2021– April 2021 **Kenya National Bureau Of Statistics (KNBS)**, *Nairobi-Kenya*, *Attachee*.

Summary

An attachee with a lot of energy and drive who has received useful experience at the Kenya National Bureau of Statistics. In assisting numerous projects and initiatives, I built a solid foundation in statistical analysis and data management. Capable of accurately and completely gathering, cleaning, and organizing data from a variety of sources, capable of performing data analysis and producing insightful conclusions using statistical software and programming languages like SPSS and R. demonstrated aptitude for analyzing and communicating statistical results in reports, charts, and graphs that are clear and succinct. Effectively contributed to research projects, surveys, and data collection projects with cross-functional teams.

Roles and Duties

1. **Statistical analysis and data collection**
   (a) Conducting in-depth statistical analysis on collected data using SPSS, STATA and drafting of well detailed reports on the findings
   (b) Cleaning of data obtained from the Monitoring and Evaluation field officers for error checking and correcting.
   (c) Assisting in drafting of data collection and analysis guidance documents.
   (d) Developing new tools for data collection of planned outcome surveys.
   (e) Assist in preparation of indicator binders and systematically categorizing collected data based on indicators in preparation of Data Quality Audits.
   (f) Assisting in the review and compilation of indicator numbers to be included in the quarterly and annual reports on a rolling regular basis.
   (g) Assisted in managing references for reports drafted and publications from the team members
2. **Research, Visualization and Documentation**
   (a) Assist in search of documents and information for team members from different databases.
   (b) using tools like Tableau, Power BI, or Python libraries to create interactive visuals
   (c) presenting complex facts in a clear and accessible manner
   (d) producing dashboards, graphs, and charts to clearly communicate important findings

Jan 2019–Dec 2020   **Fiverr International**, *Remote*, *Freelancer*.

Summary

Results-oriented freelancer on the Fiverr platform with expertise in data science, data visualization, and machine learning. possessing a broad range of skills and a track record of providing clients with projects of the highest caliber. Able to solve problems in the real world by doing statistical analysis, machine learning, and insight extraction from large, complicated datasets. Skilled in feature engineering, data cleaning, and preprocessing to guarantee data quality and improve modeling procedures. Capable of producing dynamic, visually appealing data visualizations that successfully convey findings and influence decision-making. Proficient at using a variety of programming tools and languages, such as Python, R, SQL, QGIS,ArcGIS, MapInfo, QGIS ,Survey Solutions and Tableau.

Roles and Duties

1. **Data collection and Cleaning**
   (a) data collection from a variety of sources, including databases, APIs, and web scraping.
   (b) Data quality and dependability are ensured through cleaning and preprocessing.
   (c) taking care of missing data, outliers, and inconsistent data.
   (d) converting and standardizing data to prepare it for analysis

2. **Data collection and statistical modelling**
   (a) to find patterns and trends through exploratory data analysis (EDA).
   (b) using statistical methods to analyze data and derive important conclusions.
   (c) Conducting statistical inference and hypothesis testing
   (d) creating and putting into use statistical models for forecasting and prediction

3. **Data visualization**
   (a) creating data visualizations that look good and are instructive
   (b) creating interactive graphics with the use of programs like Tableau, Power BI, or Python libraries
   (c) putting difficult information in a way that is understandable and straightforward
   (d) creating dashboards, graphs, and charts to effectively explain crucial findings

4. **Machine Learning and AI**
   (a) making use of machine learning techniques to create prediction models.
   (b) Creating and assessing models for tasks involving classification, regression, or clustering.
   (c) putting feature engineering methods into practice to improve model performance.
   (d) integrating AI methods into data analysis workflows, such as computer vision or natural language processing

5. **Project management and client communication**
   (a) managing tasks from start to finish and making sure they are delivered on time.
   (b) defining the scope and requirements of a project in conjunction with clients.
   (c) successfully communicating with clients to comprehend their requirements and expectations.
   (d) giving clients frequent updates and progress reports.
   (e) juggling several projects at once and effectively setting work priorities.

Aug–Oct 2019	**Kenya National Bureau Of Statistics**, *Nairobi-Kenya*, *Enumerator*.

Summary

A highly qualified enumerator with extensive experience aiding the Kenya National Bureau of Statistics in the efficient execution of data collecting for the National Census. Ability to to interact effectively with diverse population while gathering data, providing a friendly and cooperative environment. Excellent interpersonal and interpersonal skills ensure that survey respondents will provide accurate and trustworthy information. Efficient in using data gathering tools, conducting interviews, and delivering surveys to acquire complete and pertinent data. Meticulous and detail-oriented while adhering to accepted rules and guidelines to preserve data integrity. Able to quickly adapt to new situations and find creative solutions to problems that arise throughout data collection procedures.

Roles and Duties

↪ Conducting interviews in given households

↪ Synchronizing data to the main server

Publications

Jan 2022	**Outlier Detection Technique for Uni-variate Normal Data-sets**, *http://www.ajtas.org/article/146/10.11648.j.ajtas.20221101.11* .

Awards and Certifications

Sept 2021	**Maasa Mara University**, *Certificate in Data Analysis*, *Modeller, Cerificate of Merit*.
Sept–Oct 2020	**Gearbox KCB Foundation**, *Problem solving skills*, *Cerificate of Merit*.

Interests

- Programing   - Chess

References

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