

# KIBET PHILIP

Statistician | Data Analyst | Business Intelligence Specialist

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## PROFESSIONAL SUMMARY

Data Analyst and Statistician with 5+ years of experience delivering data-driven solutions across market research, government, and freelance consulting environments. Experienced in survey research, statistical modelling, ETL pipeline development, and business intelligence reporting, with expertise in SQL, Python, R, SPSS, and STATA. Skilled in Big data analysis, model development, machine learning, AI integration in data analytics and developing interactive Power BI and Tableau dashboards that transform complex structure and unstructured data into actionable business insights. Successfully delivered statistical analysis and reporting for projects exceeding KES 500 million annually while maintaining 99.9% data accuracy and reducing reporting cycles by 75%. Recognized for analytical excellence and effective client communication, earning a consistent 5.0/5.0 rating on Upwork.

## CORE TECHNICAL SKILLS

- **Data Analysis & Statistical Modelling:** SQL, Python (Pandas, NumPy, SciPy), R, SPSS, STATA; regression analysis, hypothesis testing, Bayesian hierarchical modelling, time-series forecasting.
- **Data Visualization & Business Intelligence:** Power BI, Tableau, Excel (PivotTables, Power Query, VBA); dashboard development, KPI tracking, executive and client-facing reporting.
- **Data Management & ETL:** SQL Server, MySQL, PostgreSQL; ETL pipeline design, data cleaning and validation, data governance, REDCap/ODK data collection systems.
- **Research & Survey Design:** Sampling and weighting methodology, questionnaire design, quantitative research analysis, large-scale dataset management.
- **Collaboration & Communication:** Stakeholder reporting, client-facing report writing, cross-functional collaboration, staff training on data systems.

## PROFESSIONAL EXPERIENCE

### Data Analyst and Statistician

Upwork Plc

May 2023 – Present

San Francisco – USA (Remote)

- Consolidated and analyzed complex datasets across 5+ sectors (finance, health, market research, operations), providing insights for strategic decisions valued at KES 500M+ annually.
- Designed sampling frameworks and weighting methodologies for 40 quantitative research studies, applying SPSS, STATA, R, and Python to datasets ranging from 100,000 to 5 million records.
- Built 30+ Power BI dashboards translating survey and operational data into KPI-tracking tools, enabling clients to monitor trends in real time instead of waiting on manual reports.
- Developed automated forecasting models with 92% accuracy, reducing reporting cycles from 8 days to 2 days and improving operational efficiency by up to 25%.
- Designed and validated 12 structured data collection instruments with built-in quality checks, reducing missing data by 30% and achieving 98% data completeness.
- Authored client-facing analytical reports for 13 contracted engagements across Kenya, the United States, and Europe, rated 5/5 for communication clarity and analytical accuracy.

**Data Analytics Specialist***Kenya Revenue Authority (KRA)***May 2022 - May 2023***Nanyuki & Isiolo- Kenya*

- Integrated and analyzed 25+ organizational KPIs across multiple departments, contributing to an 18% improvement in operational efficiency.
- Designed survey instruments across 9 counties, achieving a 95% response completion rate while reducing data collection costs by 30%.
- Built data tracking systems using SQL and Advanced Excel, consolidating third-party data sources at a 98% completion rate.
- Improved operational efficiency by 22% across several stations through trend and gap analysis.
- Built statistical models for operational forecasting, achieving an 18% improvement in forecast accuracy.

**DATA PROJECTS****Market and Consumer Data Dashboard System | Power BI, Tableau, Excel Advanced**

- Built 30 interactive dashboards converting raw survey and operational data into trend visualizations and KPI trackers for client decision-makers.
- Reduced manual reporting turnaround by integrating automated data-refresh pipelines, enabling near real-time access to findings.

**Big Data Quality Assurance and Audit System | SQL, Python, Excel Advanced**

- Designed systematic data quality audit protocols across 65 datasets spanning 50,000 to 5 million records.
- Raised data accuracy from 82% to 99.8% through structured exception reporting and validation checks.

**Bayesian Meta-Analysis for A/B Testing | R, RJAGS, STATA**

- Built a random-effects Bayesian hierarchical model for pooled effect estimation across 21 A/B tests, delivering posterior estimates and credible intervals at four confidence levels.
- Rated 5.0/5.0 by client for analytical precision and clarity of interpretation.

**EDUCATION****MSc Data Science***University of Roehampton, London, UK | Online***March 2026 –Ongoing****Bachelor of Science in Statistics***University of Embu | Embu, Kenya***September 2017 - September 2021****Certifications**

- Data Analytics – Mining and Analysis of Big Data *Alison, Galway, Ireland (Online) (May 2024)*
- Diploma in MySQL and Statistics for Data Analysis *Alison, Galway, Ireland (Online) (May 2023)*
- R Programming for Data Science *University of Embu (May 2021)*
- Advanced Excel and VBA Programming for Data Analysis *University of Embu (2021)*
- Data Visualization Automation using Microsoft Power BI *University of Embu (2020)*

**TECHNICAL SKILLS**

- **Statistical Software:** R (RJAGS, tidyverse, ggplot2), Python (Pandas, NumPy, SciPy, scikit-learn), SPSS, STATA, SAS, PSPP, Minitab
- **Data Collection & Management:** REDCap, ODK, KoboToolbox, Epi Info, Qualtrics, SurveyMonkey
- **Data Visualisation & Reporting:** Power BI, Tableau, Excel (Advanced: PivotTables, Power Query, VLOOKUP/XLOOKUP, VBA, macros)
- **Databases:** SQL (MySQL, PostgreSQL), data cleaning, ETL pipeline design
- **Documentation:** LaTeX, Jupyter Notebooks, Markdown, Git/GitHub