

Brilliant Jepkogei Kiptoo

Statistician

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Summary

Statistician with strong academic training in Statistics and applied experience in data collection, validation, analysis, and reporting. Skilled in applying statistical methodologies to support surveys, research, operational monitoring, and evidence-based decision-making across government and project environments.

Core Skills

- Survey tools design, sampling methods, and field protocols
- Data entry, cleaning, validation, and quality assurance checks
- Descriptive and inferential statistical analysis
- Trend, variance, and comparative performance analysis
- Statistical reporting, interpretation, and stakeholder advice

Tools

- R, SPSS, Python
- Excel, SQL
- Statistical databases and documentation
- Data visualisation (charts, tables, dashboards)

- Git, Jupyter Notebook

Professional Experience

Data Analyst — Capstone Construction Limited

July 2022 – Present · Remote

- Applied statistical methodologies to analyse project, operational, and performance datasets.
- Conducted trend and variance analysis to assess performance against budgets, timelines, and benchmarks.
- Maintained structured statistical databases ensuring accuracy, consistency, and documentation.
- Implemented validation checks to identify anomalies, inconsistencies, and data quality issues.
- Produced statistical summaries, dashboards, and reports to support management decisions.
- Provided insights and advice to project teams on performance risks and efficiency improvement opportunities.

Economist / Statistician Intern — Kenya National Bureau of Statistics (KNBS)

June 2021 – June 2022

- Designed and administered data collection tools for surveys and research activities.
- Conducted field data collection while following approved methodologies and quality control protocols.
- Performed data entry, cleaning, validation, and integrity checks to maintain high-quality datasets.
- Compiled and maintained county statistical databases by integrating data from multiple sources.
- Performed statistical analysis using R, SPSS, and Python to generate insights for reports.
- Created charts, graphs, and tables to strengthen technical reports and presentations.

Junior Statistician — Kenya Forestry Research Institute (KEFRI)

June 2019 – May 2021 · Muguga (Headquarters)

- Supported survey design and field data collection for socio-economic research projects.
- Cleaned, validated, and managed research datasets, ensuring compliance with research standards.

- Performed statistical analyses (summaries, regressions) using R / SPSS / Python / Stata.
- Prepared charts, tables, and visual summaries for technical reports and publications.
- Supported monitoring and evaluation activities and maintained data quality processes.

Data Analyst (Volunteer, Part-Time) — Center for Natural Resources (CENAREMA)

June 2019 – Dec 2019

- Supported environmental research through data cleaning, analysis, and report development.

Data Analyst (Volunteer) — Kenya Forestry Research Institute (KEFRI)

Jan 2019 – June 2019

- Supported field data collection and reporting on forestry economics projects.
- Entered, edited, and analysed datasets and contributed to analytical reporting.

Education

- **Master of Data Science and Innovation** — University of Technology Sydney (Feb 2023 – Dec 2024)
- **Bachelor of Science in Statistics** — Meru University of Science & Technology (Sep 2013 – Mar 2019)

Professional Development

- Member, Statistics Club — Meru University (2013–2018)
- English (Proficient), Swahili (Fluent)

Selected Projects

- **Eat Well, Live Well:** Built a machine learning model to predict obesity/diabetes risk and deployed a Streamlit application.
- **CSV Explorer:** Created an interactive web app for exploring uploaded CSV files (Streamlit).

- **Sentiment Analysis Tool:** Analysed financial news sentiment using Doc2Vec and LSTM models.

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Upload the PDF later into `/assets/cv/`.