

Wesley Kirui

Data Scientist

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Work Experience

- October 2020 - Present **Freelance Software Developer**, *Freelance*, Kilifi, Kenya.
- Build Machine learning applications using Python and Javascript
 - Develop backend systems for data storage using Firebase and Google Cloud Platform
 - Build data web scraping pipelines using BeautifulSoup, Scrapy and Selenium
- September 2019 - September 2020 **Senior Data Systems Officer**, *Komaza Forestry Ltd*, Kilifi, Kenya.
- Run complex queries on different datasets to generate insights
 - Use statistical and regression analysis methods to answer key business questions
 - Lead and train the data assistants on data validation systems and guidelines
 - Work closely with the product development team to resolve mobile and web application bugs
- January 2018 - August 2019 **Data Systems Officer**, *Komaza Forestry Ltd*, Kilifi, Kenya.
- Managed a system to track 2 million seedlings planted with over 10,000 small scale farmers
 - Created regional analysis dashboards and reports for design and management teams influencing key strategic business decisions
 - Generated new data insights using statistical analysis, machine learning and spatial analysis
 - Created, tested and troubleshoot SurveyCTO data collection forms
 - Monitored and audited data for quality and consistency
 - Led the data assistants team
- July 2017 - December 2017 **Data Systems Fellow**, *Komaza NGO*, Kilifi, Kenya.
- Built and delivered a system to enrol and manage over 16000 farmers
 - Created and managed data analysis dashboards and reports for field and office teams
 - Created training materials for the field team and the data assistants
- March 2017 - July 2017 **Data Specialist**, *CloudFactory*, Nairobi, Kenya.
- Analyzed and verified data for clients in the online workstream
 - Troubleshoot online workstream delivery challenges
- August 2016 - December 2016 **Project Analyst**, *Tanuru Group*, Nairobi, Kenya.
- Researched and analysed the industrial uses of soybeans in Kenya and the region
 - Conducted market feasibility assessment for integrated value addition of soybeans
 - Developed and maintained a database for soybean consumers in the region

Education

- August 2012 - May 2016 **BSc Mathematics and Economics**, *St. Lawrence University*, Canton New York, USA.

Skills

- Programming Languages Leadership R, Python, Javascript, SQL, Git, Github, Flask, Power BI, Metabase
English (Fluent), Swahili (Fluent)
Communication, Team Leadership

Personal Projects

- September 2020 **Machine Learning - Airbnb Price Prediction.**
- Used data from Inside Airbnb to create a regression model for Airbnb listings in Berlin, Germany
 - Cleaned the data using Pandas and Numpy and used matplotlib and seaborn for visualization
 - Used hyperparameter tuning to improve model predictions
 - Created a Streamlit app to share the analysis and deployed the app on Heroku