Gathu Macharia

Statistician

A theory has only the alternative of being right or wrong. A model has a third probability: it may be right, but irrelevant
Jadish Mehra

Education

2021–2024	**Bsc Statistics and Actuarial Science**, *Dedan Kimathi University of Technology*, Nyeri
	Statistics Background and Statistical Modeling using R and Python
2024	**Data Science Summer School and Workshop**, *Data Science Africa Africa*, Nyeri
	Data science for social good,Computer Vision Data collection, extraction of features and modeling
2021–2021	**Cisco Certified Network Association**, *Jomo Kenyatta University of agricullture and Technology*, Kiambu
	Basic Networking and Network Visualization
2016–2019	**Certificate of Secondary Education Kenya**, *Utumishi Academuy*, Gilgil
	Secondary certificate and Computer background
2008–2015	**Certificate of Primary Education Kenya**, *Complex Primary School*, Mumias
	Primary certificate

Degree thesis

title	Modeling the Recovery Time of Stock Prices using Accelerated Failure Time Model
supervisors	Dr. Mundia
description	Using statistical survival models to model the survival time of medical condition to be prevelant is widely used by medical researchers. We thought of using the same concep but this time to assess the effects of covariates on recovery time of stocks in Kenyan stocks. The hazard rates were not proportional so we opted for non proportion hazard model which is AFT

Experience

Vocational

2023–204	**Risk Management and Internal Audit**, *National Social Security Fund*, Nairobi
	Utilized Benfords law in fraud detection. Used IDEA software, R and Excel to analyze Audit data. Also made compliance files and was involved in writing reports of respective field.
2022–Present	**Freelance**, *Freelancer*, Nyeri
	Used both R, SPSS and Python to carry out test of hypothesis, generalized models, Bayesian models, Gradient Boosting Models, Neural Networks and others.

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 Gathu
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Miscellaneous

2019–2021 **Printing Shop**, *Fastnet Cyber*, Nanyuki
Learnt how to handle documents, Printing, Bindig,

Languages

Kiswahili	Proficient	*Favourite*
English	Proficient	*Reading*
Gikuyu	Proficient	*Lingual*

Skills

Actuarial Theory	Insurance, Investment and Banking theory		
R	Proficient in statistical Programming	Proficient	Data Visualization
Python	Proficient in Machine learning	Good	Web scrapping
SPSS	Statistical Inferencing		
EXCEL	Data Analysis		

Interests

Watching Documentaries

Nature Walk

Exploring new places

Projects

○ Forecasting the stock prices of NSE-listed Companies using GARCH Extensions.

○

○ Built a predictive model using logistic regression to estimate the probability of customer churn.

Extra Curricular Activities

○ Member f Data Science Africa

○ Participated in 2021 Nationals at UON and emerged as winners.

○ Actuarial Club

○ Data Science Society DSAIC (Tutor)

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References

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Position:	Project Coordinator
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Name:	Dr. Omari Cyprian
Position:	Chairman
Company:	BSc Statistics and Actuarial Science, Dedan Kimathi University of Technology
Contact:	+254 722 616 725
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Name:	Julius Miheso
Position:	Internal Auditor
Company:	NSSF
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