

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 agriculture 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 prevalent is widely used by medical researchers. We thought of using the same concept 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

- 2023–2024 **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.

Nyeri-Mweiga Road – P.o Box 657-10100 Nyeri – Kenya

☎ +254702 499 673 • ✉ sgathuh@gmail.com

🌐 gathuh.github.io/gathuportfolio/ • in gathu-simon-82a275199/

👤 Gathuh

Miscellaneous

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

Languages

Kiswahili	Proficient	<i>Favourite</i>
English	Proficient	<i>Reading</i>
Gikuyu	Proficient	<i>Lingual</i>

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)

Nyeri-Mweiga Road – P.o Box 657-10100 Nyei – Kenya

☎ +254702 499 673 • ✉ sgathuh@gmail.com

🌐 gathuh.github.io/gathuportfolio/ • **in** gathu-simon-82a275199/

🐙 Gathuh

References

Name:	Dr. Mundia S.M, Lecturer
Position:	Project Coordinator
Company:	Dedan Kimathi University of Technology
Contact:	+254 721 302 869
Email:	simon.maina@dkut.ac.ke
Name:	Dr. Omari Cyprian
Position:	Chairman
Company:	BSc Statistics and Actuarial Science, Dedan Kimathi University of Technology
Contact:	+254 722 616 725
Email:	cyomari@dkut.ac.ke
Name:	Julius Miheso
Position:	Internal Auditor
Company:	NSSF
Contact:	+254 720 652 682
Email:	atsiaya80@gmail.com
Name:	Gideon Ngome
Position:	Risk Manager
Company:	NSSF
Contact:	+254 746 595 822
Email:	ngomegideon@yahoo.com