Leykun Getaneh

Data Scientist | Senior Statistician | Data Analyst

- Dessie, Ethiopia
- Male
- Born: June 17, 1988

Contact

- Dessie, Ethiopia
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Skills

R Programming — 10+ yrs

Python Programming — 5+ yrs

Statistical Modeling — 10+ yrs

Machine Learning — 5+ yrs

Deep Learning — 2 yrs

Data Visualization — 10+ yrs

Rmarkdown — 6+ yrs.

Quarto — 2+ yr.

Summary

Data Scientist, Statistician, and Data Analyst with over 11 years in academic and research settings, including 7+ years in a senior capacity at Wollo University. Proficient in data analysis using R and Python, with deep expertise in statistical techniques, machine learning, data visualization, and emerging deep learning methods. Committed to leveraging data-driven insights for impactful solutions, particularly in public health and development.

Experience

Lecturer/Researcher, Data Scientist, Statistician — 09/2016 - Present
Department of Statistics,
Wollo University, Dessie, Ethiopia

Led statistical software training (R, Python, SPSS); Taught diverse statistics courses; Supervised 20+ undergraduate theses; Coordinated departmental research initiatives, enhancing research output; Actively contributed to community service projects leveraging data analysis.

Lecturer, Statistics — 02/2013 - 08/2016
Aksum University, Axum, Ethiopia

Delivered undergraduate courses in core statistical subjects including probability, inference, and regression analysis; Provided academic advising and mentorship to students.

Research Interests

My research focuses on the application and development of advanced statistical and machine learning methodologies to solve real-world problems. Key areas include:

- **Machine Learning & Deep Learning**
- **Disease Prediction**
- **Time Series Analysis & Forecasting**
- **Modelling**

Projects

See my personal website and github profile for a comprehensive list of open source projects.

Malaria Incidence Forecasting with Deep Learning
Lead Researcher

Spatio-temporal deep learning models, PyTorch implementation, Public health decision support system

Child Micronutrient Deficiency Prediction
Lead Researcher

Machine learning framework, Published in Frontiers in Nutrition, DHS survey data analysis, Model Deployed

Ethiopia Earthquake Tracker
Developer

Real-time seismic monitoring system using R Shiny, Integrated USGS API with Leaflet mapping, Project URL: https://leykunget.github.io/projects.html

Languages

English Proficient- C2

Amharic Native

Tools

- RStudio, VS Code, Jupyter lab, Positron
- Git, GitHub
- scikit-learn, TensorFlow, PyTorch
- caret, Tidymodels
- Kobo Toolbox, ODK
- R Shiny, Python Shiny
- SPSS, STATA, SAS
- Microsoft Office Suite

Education

09/2010 – 01/2013

MSc in Statistics

Addis Ababa University, Ethiopia

Thesis: Forecasting of petroleum oil import prices by GARCH models: The case of Ethiopia.

09/2006 - 07/2008

BSc in Statistics

University of Gondar, Ethiopia

COVID-19 Dashboard
Developer

Nationwide pandemic tracking system, Interactive Quarto dashboard with real-time updates, Dashboard URL: https://leykungetaneh.quarto.pub/covid-19-in-ethiopia/covid-19-et-dashboard.html

Customer Churn Prediction
ML Engineer

End-to-end churn analysis pipeline, Deployed XGBoost model

Publication

Predictors of Micronutrient Deficiency **2024**
Frontiers in Nutrition

Machine learning analysis of child nutrition data
DOI: 10.3389/fnut.2023.1277048

Petroleum Price Forecasting **2013**
MSc Thesis

GARCH models for oil import prices
Institutional Repository: http://10.90.10.223:4000/handle/123456789/3841

Certification

Machine Learning Specialization **10/2024**
DeepLearning.AI & Stanford University

Advanced learning algorithms and neural networks
View Certificate

Certified Instructor **04/2024**
The Carpentries

Authorized to teach Software/Data Carpentry workshops
Official Profile

Data Carpentry Workshop Lead **05/2024**
Wollo University

Taught Spreadsheets, OpenRefine, and R
Workshop Materials

Data Science Specialization **10/2019 - 07/2022**
Johns Hopkins University

9-course program covering R, ML, and reproducibility
Verify Credential

R Programming Trainer **09/2019**
Wollo University

Faculty training: Agriculture College & Veterinary Medicine
Covered R basics and research applications

Trainer: R statistical computing software   **12/2017**

Wollo University

Covered the fundamentals of the R programming with applications in health science and medicine

References

1. **Jemal Ayalew Yimam (PhD)** Department of Statistics, Wollo University, Dessie, Ethiopia Phone: +251920488641 Email: `jemal4446@yahoo.com`

2. **Eskezeia Y. Dessie (PhD)** Department of Pediatrics, Cincinnati Children's Hospital Medical Center University of Cincinnati, College of Medicine, Cincinnati, OH, United States Phone: +15137201937 Email: `eskezeia.dessie@cchmc.org`

3. **Mesfin Diro (PhD)** Program of Computational Data Science, Addis Ababa University, Addis Ababa, Ethiopia. Phone: +251912086156 Email: `mesfin.diro@aau.edu.et`