BERHANE ARADOM TEDLA

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GitHub: https://github.com/BerhaneAnalytics/BerhaneAnalytics.github.io

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QUALIFICATIONS

- **Master of Science in Data Science**, Eastern University, Pennsylvania, USA, 2025

- **Master of Educational Economy and Management**, Northeast Normal University, China, 2012

- **Bachelor of Educational Administration with a Minor in Geography**, University of Asmara, Eritrea, 2004

EMPLOYMENT HISTORY

- **2019–Present**: Amazon, Groveport, Ohio

- **2018–2019**: TS TECH HONDA CORPORATE, USA

- **2004–2010**: Lecturer, University of Asmara, Eritrea

- **2006–2010**: Part-time Lecturer, Asmara-Catholic Theological & Philosophical Institute, Eritrea

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TECHNICAL SKILLS

- **Programming**: R (advanced), SQL (intermediate), Python (basic; pandas, scikit-learn)

- **Tools**: RStudio, Shiny, Tableau, Jupyter

- **Machine Learning**:

  - **Supervised Learning**: Logistic Regression, Support Vector Machines, Random Forest, Decision Trees

  - **Unsupervised Learning**: K-Means Clustering, Hierarchical Clustering, Principal Component Analysis (PCA)

  - **Model Evaluation**: Cross-validation, confusion matrix, ROC curve, AUC, precision, recall, F1-score

- o **Applications**: Classification, regression, clustering, anomaly detection, and dimensionality reduction

- o **Time Series Analysis**: Forecasting (SES, ARIMA, SARIMA, Holt Winner's Smoothing), Trend and Seasonality Detection, Anomaly Detection, Temporal Pattern Recognition

- **Statistical Skills**: Statistical hypothesis testing (parametric and nonparametric), data analysis, experimental design

- **Research Methodology**: Qualitative and quantitative research methods, data collection, survey design, and statistical analysis

- **Data Skills**: Data Wrangling, EDA, Visualization, Feature Engineering, Reporting

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LANGUAGE SKILLS

- **English**: Excellent

- **Tigrinya**

ADMINISTRATIVE EXPERIENCE

- Academic Advisor, Department of Educational Administration, University of Asmara

- Grade Sheet Compiler, Department of Educational Administration, University of Asmara

- Member, College Examination Committee, Faculty of Education

- Tutor Coordinator, Department of Educational Administration

- Organizer, Foreign Students' Games, Northeast Normal University, China

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PROJECTS

1. **Heart Disease Prediction System**

   - o Built using R with Logistic Regression, SVM, Random Forest, and K-Means Clustering

   - o Data preprocessing, visualization, model evaluation with tidyverse and caret

   - o GitHub: https://github.com/BerhaneAnalytics/heart-disease-project

2. **Student Performance Predictor**

   - o Predicting student outcomes based on academic/behavioral data in R

   - o SQL used for data extraction and joins

   - o Model building and validation using classification algorithms

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ACADEMIC & BOOK PUBLICATIONS

SCOPUS-Indexed Journals

1. **School Reformation for a Better Performance Through School-Based Governance**
   NeuroQuantology, 2022 | DOI: 10.14704/nq.2022.20.6.NQ22616

2. **An Essence of Leadership, Its Styles: A Review**
   International Journal of Health Sciences, 2022 | DOI: 10.53730/ijhs.v6nS2.5083

3. **Leadership in Healthcare Organizations: A Retrospective Study**
   International Journal of Health Sciences, 2022 | DOI: 10.53730/ijhs.v6nS3.5427

4. **The Role of School Leadership Toward Improving Student Achievement**
   Journal of Positive School Psychology, 2022 | Link

5. **Teacher Professionalism and Teacher Leadership**
   Eurasian Journal of Social Sciences, 2022 | DOI: 10.15604/ejss.2022.10.01.001

6. **Leadership Styles and School Performance in Eritrea**
   International Journal of Management, 2021 | DOI: 10.34218/IJM.12.4.2021.007

7. **The Role of Secondary School Department Heads**
   Journal of Management Information and Decision Sciences, 2021 | Link

8. **Agricultural Credit in India**
   Journal of Management Information and Decision Sciences, 2021 | Link

9. **Online Shopping and Customer Satisfaction in COVID-19**
   Journal of Management Information and Decision Sciences, 2021 | Link

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Non-SCOPUS Journals

1. **Teachers and Their Educational Leadership**
   Indian Journal of Science and Technology, 2017

2. **Instructional Leadership and School Climate in Eritrea**
   Literacy Information and Computer Education Journal (LICEJ), 2012

3. **Importance and Barriers of ICT in East Africa**
   International Journal for e-Learning Security (IJeLS), 2012

Book Publication

The New You Is Not Yet Discovered
Outskirts Press, 2018
https://outskirtspress.com/thenewyouisnotyetdiscovered

ORCID: https://orcid.org/0000-0002-9765-6756