

BERHANE ARADOM TEDLA

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

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
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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

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

- Built using R with Logistic Regression, SVM, Random Forest, and K-Means Clustering
- Data preprocessing, visualization, model evaluation with tidyverse and caret
- GitHub: <https://github.com/BerhaneAnalytics/heart-disease-project>

2. Student Performance Predictor

- Predicting student outcomes based on academic/behavioral data in R
- SQL used for data extraction and joins
- Model building and validation using classification algorithms

ACADEMIC & BOOK PUBLICATIONS

SCOPUS-Indexed Journals

1. **Tedla, B. A.** (2022). *School reformation for a better performance through school-based governance. NeuroQuantology*, 20(6).
<https://doi.org/10.14704/nq.2022.20.6.NQ22616>
2. **Tedla, B. A.** (2022). *An essence of leadership, its styles: A review. International Journal of Health Sciences*, 6(S2). <https://doi.org/10.53730/ijhs.v6nS2.5083>
3. **Tedla, B. A.** (2022). *Leadership in healthcare organizations: A retrospective study. International Journal of Health Sciences*, 6(S3).
<https://doi.org/10.53730/ijhs.v6nS3.5427>
4. **Tedla, B. A.** (2022). *The role of school leadership toward improving student achievement. Journal of Positive School Psychology*, 6(4).
<https://journalppw.com/index.php/jpsp/article/view/4639>
5. **Tedla, B. A.** (2022). *Teacher professionalism and teacher leadership. Eurasian Journal of Social Sciences*, 10(1). <https://doi.org/10.15604/ejss.2022.10.01.001>
6. **Tedla, B. A.** (2021). *Leadership styles and school performance in Eritrea. International Journal of Management*, 12(4). <https://doi.org/10.34218/IJM.12.4.2021.007>
7. **Tedla, B. A.**, Gaikar, V., & Redda, E. H. (2021). *The nature and ambiguous role of secondary school department heads in the Eritrean educational context. Journal of Management Information and Decision Sciences*, 24(S6).
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4001187
8. **Tedla, B. A.** (2021). *Agricultural credit in India. Journal of Management Information and Decision Sciences*, 24(S6).
9. **Tedla, B. A.** (2021). *Online shopping and customer satisfaction in COVID-19. Journal of Management Information and Decision Sciences*, 24(S6).

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
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Book Publication

The New You Is Not Yet Discovered

Outskirts Press, 2018

<https://outskirtspress.com/thenewyouisnotyetdiscovered>

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