

AYINLA BABATUNDE ISAIAH
Position: Lecturer I

Department of Data Science
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Education and Qualifications

Ph.D.	Computer Science, University of Ibadan	2021
M.Sc.	Computer Science, University of Ibadan	2014
B.Sc.	Computer Science, Olabisi Onabanjo University, Ago-Iwoye	2009

International Education

- Federal University of Lavras, Brazil, 2025 – Postdoctoral Fellowship, Department of Automation Engineering (Artificial Intelligent Unit)
- College of Charleston, South Carolina, USA, 2002 – Fellowship Programming
- Medical University of South Carolina, USA, 2002 – Fellowship Biostatistical

International Conferences/Workshops Attended

- College of Medicine and Embassy of France in Nigeria. (2022, March 29-31). *Research in Health-Care, Innovation, Information and Artificial Intelligence (RS3I) project bootcamp on digital health, telehealth and e-learning* [Bootcamp]. College of Medicine, Nigeria.
- Countering Transfer of WMD-Enabling Research and Technology via a “Know Your Collaborator,” Kenya, organised by Pacific Northwest National Laboratory and supported by the Department of State, USA Nov. 15–16, 2023
- African Academic Research Consortium, Johannesburg, South Africa, organised by Sandia National Laboratory, USA, supported by the Department of State, USA Aug. 28–30, 2023
- Industrial Data Science Conference 2020 (IDS 2020), Online Oct. 21–22, 2020

Teaching/Work Experience

- Postgraduate and undergraduate instructor, Faculty of Computing, Department of Computer Science/Data Science, University of Ibadan 2019–till date.
- Research Assistant, Automation Engineering, Brazil 2025

Professional Membership

- Member, Computer Professionals (Registration Council) of Nigeria – 004205/2014
- Member, Nigeria Computer Society

(b) Community Services

1. Chairman, Editorial Board of Journal International Conference of Faculty of Computing, University of Ibadan, Nigeria.
2. The Secretary, Africa Research Security Consortium, supported by the Department of State, USA 2023–Till date
3. Chairman, Editorial Board of Journal of Science Research, Faculty of Science, University of Ibadan 2023–2025 date

Publications and Books

1. **Ayinla, B. I.**, Danton, D. F., Felipe, O. e Silva, and Ahmed, E. (2026). Causally-informed deep neural networks for climate-economic modeling. *International Journal of Data Science and Analytics*. Springer. (Accepted for publication).
2. Azeez, H. and **Ayinla, B. I.** (2026). A multimodal deep learning framework for lung nodule detection. *LASU Postgraduate School Journal (LPSJ)*. (Accepted for publication).
3. **Ayinla, B. I.**, Danton, D. F., Felipe, O. e Silva, and Ahmed, E. (2025). An integrated wavelet DAG-CNLA-SCM structure with recurrent neural networks for climate vulnerabilities prediction. In *Proceedings of the XVII Brazilian Congress on Computational Intelligence* (p. 7). Universidade Federal de Minas Gerais. <https://doi.org/10.21528/CBIC2025-1191067>
4. **Ayinla, B. I.** and Abdulsalam, R. A. (2024). Exploring a Novel Approach of K-mean Gradient Boosting Algorithm with PCA for Drought Prediction. *America Journal of Data Mining and Knowledge Discovery*.
5. **Ayinla, B. I.** and Abdulsalam, R. A. (2024). Exploring a novel approach of K-mean gradient boosting algorithm with PCA for drought prediction. *American Journal of Data Mining and Knowledge Discovery*, 9(1), 1–19. <https://doi.org/10.11648/j.ajdmkd.20240901.11>
6. Aderonmu, D. and **Ayinla, B. I.** (2026). A hybridized deep learning framework for day-ahead solar power forecasting. In *Proceedings of the 4th EAI International Conference on Safe, Secure, Ethical, Responsible Technologies and Emerging Applications*. (Accepted for publication).
7. Igna-Igboko, H. C., **Ayinla, B. I.** and Onifade, O. W. F. (2026). A hybrid CNN-Transformer with adaptive temporal gating for interpretable satellite image time-series analysis. In *Proceedings of the 4th EAI International Conference on Safe, Secure, Ethical, Responsible Technologies and Emerging Applications*. (Accepted for publication).
8. **Ayinla, B. I.** and Adeniji, D. (2026). A comprehensive systematic review of dual use research classification using artificial intelligence. *International Journal of Computer Applications*, 187(135), 20–27. <https://doi.org/10.5120/ijca831f03bf6872>
9. **Ayinla, B. I.** (2026). Leveraging The Jaccard Similarity Coefficient In Natural Language Processing For Effective Classification Of Dual-Use Research Of Concern. *International Journal of Information, privacy, Security and Integrity, Inderscience Enterprises Limited*, Cointrin-Geneva, SWITZERLAND (Accepted).
10. **Ayinla, B. I.** and Akinola, S. O. (2020). An improved collaborative pruning using ant colony optimization and pessimistic technique of C5.0 decision tree algorithm. *International Journal of Computer Science and Information Security*, 18(12), 111–123.
11. **Ayinla, B. I.** and Akinola, S. O. (2021). An improved ensemble model using random forest branch clustering optimisation approach. *University of Ibadan Journal of Science and Logics in ICT Research*, 7(2), 28–32.

12. **Ayinla, B. I.** and Akande, O. C. (2024). Development of LRMulti Prediction Cross Validation Model for Effective Prediction of Imbalanced Dataset in Flood Susceptible Area. *International Journal of Computer Applications (IJCA)* Vol. 186, No. 8: 25–32 (USA).