

01 Name: BABATUNDE Adewumi Surajudeen

02. EDUCATIONAL BACKGROUND

(i) Educational institutions attended with dates

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| 1. Federal University Oye-Ekiti, Oye-Ekiti, Nigeria | 2020 to 2023 |
| 2. Ladoke Akintola University of Technology, Ogbomoso, Nigeria | 2009 to 2012 |
| 3. Islamic Comprehensive College, Ede, Osun State, Nigeria | 1986 to 1992 |

(ii) Academic and professional qualifications with dates

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|---|------|
| 1. M. Eng. Computer Engineering | 2023 |
| 2. B.Tech. Computer Engineering | 2011 |
| 3. Senior School Certificate | 2004 |
| 4. Registered Engineer, COREN (R.79, 080) | 2024 |

03. Prizes, honours, scholarship, national and international recognitions

- PTDF ISS Full Scholarship
- Reviewer, Advances in Artificial Intelligence and Machine Learning (ISSN: 2582-9793) (Scopus Indexed Journal)
- Reviewer, Journal of Advances in Knowledge Based systems, Data Science, and Cybersecurity
- Reviewer, Journal of Journal of Artificial Intelligence and Autonomous Intelligence

04. WORKING EXPERIENCE

(a) Experience within the university system

S/N	Employer	Designation	Nature of Duty	Date
1	Federal University of Agriculture, Abeokuta, Abeokuta, Nigeria.	Lecturer II	Teaching, Research and Community Service	October 1, 2025 to date
2	Bells University of Technology Ota, Ogun State, Nigeria.	Lecturer II	Teaching, Research and Community Service	February 6, 2025 to October 1, 2025
3	Bells University of Technology Ota, Ogun State, Nigeria.	Assistant Lecturer	Teaching, Research and Community Service	May 15, 2024 to February 6, 2025

(b) Teaching workload in the last three sessions (contact time and class size)

(c) Students' Supervision in the Last three Sessions

Session	No of Undergraduate Students' Supervised
2023/2024	15
2024/2025	4

05. RESEARCH INTEREST OR COMMISSIONED PROJECTS

a) Research completed

- ML-Driven Credit Risk Modeling for Adaptive Irrigation Financing
- Blockchain-integrated machine learning models for supply chain integrity in essential medicines.

- iii. Anomaly Detection Frameworks for Cybersecurity in Nigerian Fintech Startups using Unsupervised Machine Learning Techniques.
- iv. Predictive analytics for cold-chain logistics in perishable crop supply chains.
- v. AI Models for Environmental Remediation in Artisanal Mining Regions.
- vi. Development of multimodal face anti-spoofing using cross-attention between RGB, depth, and thermal streams in vision transformers.
- vii. Hybrid Explainable Machine Learning for Credit Scoring of Informal Sector Workers Using Mobile and Transaction Data.
- viii. Explainable Artificial Intelligence (AI) for Obstetric Complication Prediction.
- ix. Hybrid Deep Learning for Off-Grid Electrification Forecasting.
- x. Deep Learning Based Student Identification and Access Control System for Examination Hall Entry
- xi. Decentralized Microgrid Optimization with Artificial intelligence for Industrial Clusters
- xii. Machine learning-driven credit card fraud detection using pattern recognition and anomaly detection
- b) Research in progress**
 - i. Enhancing hydrocarbon permeability prediction through ensembles of machine learning models in reservoir characterization.
 - ii. Optimized skin cancer classification through advanced deep transfer learning approaches.
 - iii. Systematic Hyperparameter Tuning of Intelligent Learning Frameworks for Robust Permeability Estimation in Complex Hydrocarbon Reservoir Characterization
 - iv. Synergistic integration of multi-model weather forecasting frameworks for enhanced predictive accuracy

06. SPECIAL ASSIGNMENTS/ COMMUNITY SERVICE AT BELL UNIVERSITY OF TECHNOLOGY OTA.

(a) Special assignments

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|---|--------------|
| i. Departmental Examination Officer | 2024 to 2025 |
| ii. 500L Students Adviser | 2024 to 2025 |
| iii. CCMAS Curriculum Departmental Representative | 2025 |
| iv. Member, College Wide Time Table Committee | 2024 to 2025 |

07. EXTRA-CURRICULAR ACTIVITIES

Reading and watching documentaries.

08. PUBLICATIONS

(a) Dissertation & Thesis

1. **Babatunde S.A. (2023).** Application of Real-coded generic algorithm to the optimization of support vector regression in the modelling and characterization of hydrocarbon reservoirs. M.Eng. Dissertation, Department of Computer Engineering, Federal University Oye-Ekiti, Oye-Ekiti, Nigeria.

2. **Babatunde S.A. (2011).** Analysis of face database using principal component analysis and projection combined principal component analysis. B.Tech. Department of Computer Science and Engineering, Ladoke Akintola University of Technology, Ogbomoso, Nigeria.

(b) Journal articles in print:

(i) Articles in learned journals

1. [Machine learning techniques for resource allocation in wireless communication networks: A review](#)
2. [Industrial Automation through Machine Failure Classification using Machine Learning Techniques with Explainable Artificial Intelligence](#)
3. [Performance Sensitivity of Extreme Learning Machine \(ELM\) for Correlation-Based Feature Selection in Reservoir Characterisation](#)
4. [Development of an Automated Poultry House Temperature Control System Using an Optimization Approach Based on a Proportional Integral Derivative Controller](#)
5. [Simulation and Additive Manufacturing of a Crankshaft Component using Fused Deposition Modelling Techniques](#)
6. [Anomaly Detection Frameworks for Cybersecurity in Nigerian Fintech Startups Using Unsupervised Machine Learning Techniques](#)
7. [AI-Driven Load Forecasting and Demand Response for Hybrid Solar Microgrids in Urban Nigeria](#)
8. [Design and Implementation of a Blockchain-Based Marketplace for Agricultural Produce in Nigeria](#)
9. [Multimodal Face Anti-Spoofing Using Cross-Attention](#)
10. [Application of real-coded genetic algorithm to the optimization of support vector regression in the modeling and characterization of hydrocarbon reservoirs](#)