SALISU MODI, PhD.

Personal Information

- **Date of Birth**: 24th March 1987
- **Nationality:** Nigerian
- **Marital Status:** Married
- **Languages:** Hausa, English (Excellent Communication Skills)
- **Hobbies:** Reading and Computing

Contact Information

- Academic Address: Department of Computer Science, Faculty of Computing, Sokoto State University, Nigeria
- Residential Address: Shehu Shagari Road, Sabon Gari Area, Shagari, Sokoto State, Nigeria
- Email: salisumodi@yahoo.com | salisumodi@gmail.com
- Phone: +234 810 457 0057
- Skype ID, LinkedIn and X ID: salisumodi

Research Profile and Objective

A dedicated Lecturer in Computer Science, specializing in Artificial Intelligence (AI), Natural Language Processing (NLP), and Biomedical Informatics. My core expertise lies in developing and optimizing advanced machine learning models, specifically Transformer-based models, for complex, real-world tasks such as Adverse Drug Event (ADE) extraction from clinical notes. I have demonstrated success in securing competitive research grants (FRGS, TETFund IBR) and publishing in high-impact, peer-reviewed journals. My commitment is to leverage advanced data science methodologies to derive actionable insights, focusing on practical algorithmic solutions in both medical and educational domains.

Education

Degree/Certificate	Institution	Field of Study	Year
Doctor of Philosophy (PhD.)	Universiti Putra Malaysia	Computer Science (Intelligent Systems (AI/NLP))	2025
M.Sc. (Merit)	The University of Sheffield, UK	Software Systems and Internet Technology	2015
Professional Diploma in Education (PDE)	Shehu Shagari College of Education	Education	2016

Degree/Certificate	Institution	Field of Study	Year
	(Affiliated to ABU, Zaria)		
B.Sc. (Second Class Upper)	Usmanu Danfodio University, Sokoto	Computer Science	2011
Advance Certificate in Info. Tech. Management	Computing Tech. Gombe state	Information Technology	2013

Academic and Professional Appointments

- Lecturer
    - Department of Computer Science, Sokoto State University, Nigeria 2014 – Present
    - Responsibilities include lecturing undergraduate courses, supervising student projects, and contributing to departmental and faculty academic affairs.
- PhD. Researcher
    - Universiti Putra Malaysia | 2021 – 2025
    - Research focused on Artificial Intelligence and Natural Language Processing for Adverse Drug Event (ADE) extraction from Medical textual documents.

Research Grants and Projects

Project Title	Role/Type	Funding Body	Year
Hybridising multi-task transfer learning and interactive human-in-the-loop learning for accurate Adverse Drug Event extraction from clinical notes.	Principal Researcher (PhD Research)	Universiti Putra Malaysia / Ministry of Higher Education, Malaysia (FRGS/1/2023/ICT02/UPM/02/3)	(2022-2025)
A Python-based Analysis on the Impact of adopting an Open-source E-learning Software on the Educational sector in Nigeria.	Principal Researcher	IBR TETFund Nigeria	(2021)
Improving final year student project allocation process,	Principal Researcher	IBR TETFund Nigeria	(2018)

Project Title	Role/Type	Funding Body	Year
using algorithmic solutions to stable matching problems.			

Publications

1. Modi, S., Kasmiran, K. A., Mohd Sharef, N., & Sharum, M. Y. (2024). Extracting adverse drug events from clinical Notes: A systematic review of approaches used. Journal of Biomedical Informatics, 151(1), 104603. DOI: 10.1016/j.jbi.2024.104603
2. Modi, S., Kasmiran, K. A., Mohd Sharef, N., & Sharum, M. Y. (2024). Extracting adverse drug events from clinical Notes: Enhanced Adverse Drug Event Extraction Using Prefix-Based Multi-Prompt Tuning in Transformer Models. International Journal on Visualization, 81(2-3), 104603. DOI: 10.62527/joiv.8.3-2.3454
3. Modi Salisu, Anahita Ghazvini, Nurfadhlina Mohd Sharef, (under review 2025). Multi-granular Early Course Grade Prediction with Explainable Deep Time Series Analysis for Transparent Educational Insight. PeerJ Computer Science.
4. Modi, S., Kasmiran, K. A., Mohd Sharef, N., & Sharum, M. Y. (under review). An interactive human-in-the-loop learning-based optimisation of transformer-based model soft prompt tuning for adverse drug event extraction.
5. Wadata, B., Modi, S., Umar, M., & Tahir, H. A. (2022). A Web-based Awareness System for Improving Open-source e-learning Software adoption by Nigerian Higher Institutions of learning. International Journal of Advances in Scientific Research and Engineering, 8(10), 23-36. DOI: 10.31695/IJASRE.2022.8.10.3
6. Nura Modi Shagari, Rosli Bin Salleh, Ismail Ahmedy, Mohd Yamani Idna Idris, Ghulam Murtaza, Usman Ali, Salisu Modi (2022). A two-step clustering to minimize redundant transmission in wireless sensor network using sleep-awake mechanism. Wireless Networks. DOI: 10.1007/s11276-021-02885-8.
7. Umar, M., Aliyu, M., & Modi, S. (2022). Sentiment Analysis in the Era of Web 2.0: Applications, Implementation Tools and Approaches for the Novice Researcher. Caliphate Journal of Science & Technology (CaJoST), 1, 1-9.
8. Modi, S., Taher, H., & Mahmud, H. (2021). A Tool to Automate Student UML diagram Evaluation. Academic Journal of Nawroz University, 10, 189-198. DOI: 10.25007/ajnu.v10n2a1035.
9. Wadata, B., Shagari, N. M., & Modi, S. (2020). Boosting Algorithm for Empty Node Recovery in a Sentence. Caliphate Journal of Science & Technology (CaJoST), 1, 37-42.

10. Hassan, Z. L., Modi, S., & Wadata, B. (2020). Exploring Local Content Using Mobile Application to Boost Broadband Demand and Foster Socio-Economic Gains for Local Farmers in Nigeria. Caliphate Journal of Science & Technology (CaJoST), 2, 159-166.
11. Ahmad, R., Modi, S., & Wadata, B. (2020). A Survey of Cyber-Security Practices in Nigeria.
12. Modi, S., Modi Shagari, N., & Wadata, B. (2018). Implementation of Stable Marriage Algorithm in Student Project Allocation. Asian Journal of Research in Computer Science, 1(4), 1-9. DOI: 10.9734/ajrcos/2018/v1i424749.
13. Nura M., Ibrahim A., Wadata B., & Modi S. (2015). Scenario-Based Dynamic and Static Separation of Duty. Centre for promotion of educational & scientific research.

Technical Skills and Expertise

- Programming Languages: Java (Standalone and Web-based applications), Python
- Web Development: PHP, JavaScript (Node.js), Ruby on Rails framework, Joomla, Drupal
- Software Development: Experience in real-life software design and development as part of a UK-based team, application development during M.Sc. dissertation.
- Core Competencies: Artificial Intelligence, Natural Language Processing, Software Systems, Team Leadership, Technical Communication.

Professional Experience

- Software Developer/Team Member
  - (Client-based work within the United Kingdom) 2015
  - Worked as part of a development team designing and developing real-life software solutions for clients, gaining significant experience in application development.
- Part-time Worker
  - Gun-stone, United Kingdom 2015
  - Gained experience in fast-paced work environments and collaborative teamwork.
- ICT Teacher (NYSC)
  - Government Science Secondary School, Gombe 2012 – 2013
  - Taught in the ICT Department during the National Youth Service Corps year.
- Ad Hoc Staff
  - INEC (Independent National Electoral Commission) 2007 & 2011 General Elections
- SIWES Trainee
  - Jedo Investment Company 2010

Referees

1. Khairul Azhar Kasmiran (Ph.D.) Senior Lecturer, FSKTM University Putra Malaysia Phone: +60122948146, k_azhar@upm.edu.my

2. Bashiru Modi Shagari Principal, Government Day Secondary School, Kajiji Phone: +234 814 905 2799

3. Muhammmad Dantuni Shagari Director, Agric Department, Shagari Local Government Secretariat Phone: +234 803 667 6964