

## **IBRAHIM Yusuf**

Senior Lecturer, Department of Computer Engineering,  
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### **Summary**



As an accomplished Electrical and Computer Engineering graduate, I possess a strong interest in the fields of Artificial Intelligence (AI), Information Technology (IT), and Computing. I have a deep-rooted passion for contributing towards positive societal transformation. My dedication, enthusiasm, and loyalty to my work are reflected in my meticulous approach to research and analysis, coupled with my strategic thinking abilities. I am proactive and have a solution-oriented mindset. I am a fast learner and self-motivated, and I apply methods and technical updates in my day-to-day work with a high degree of attention to detail and commitment.

- ☐ Very well acquainted with various AI and computing tools
- ☐ Communication and team building skills with ability to work independently or in a team
- ☐ Excellent technical and supervisory skills
- ☐ Keen passion for Artificial Intelligence and its dynamic capabilities
- ☐ Continuously seeking new opportunities to expand my knowledge and skillset.
- ☐ An 'Education for All' advocate

### **Personal Details**

- |   |   |                             |
|---|---|-----------------------------|
| <input type="checkbox"/> Date of Birth    | : | 10 <sup>th</sup> March 1987 |
| <input type="checkbox"/> Gender           | : | Male                        |
| <input type="checkbox"/> Marital Status   | : | Married                     |
| <input type="checkbox"/> Languages Spoken | : | English and Hausa           |
| <input type="checkbox"/> Nationality      | : | Nigerian                    |

### **Educational Qualification**

- ☐ **Doctor of Philosophy (Ph.D.) [Computer Engineering], 2017-2019**
  - Ahmadu Bello University, Zaria (Distinction)
- ☐ **Master of Science (MSc) [Computer Engineering], 2013-2017**
  - Ahmadu Bello University, Zaria (Distinction)
- ☐ **Bachelor of Engineering (BEng) [Electrical Engineering], 2006-2011**
  - Ahmadu Bello University, Zaria (First Class)

### **Experience**

1. Senior Lecturer from October 2023 till date.  
**Department of Computer Engineering, Ahmadu Bello University, – Zaria, Nigeria.**
2. Lecturer I from October 2020 to October 2023.  
**Department of Computer Engineering, Ahmadu Bello University, – Zaria, Nigeria.**
3. Lecturer II from January 2017 to October 2020.  
**Department of Computer Engineering, Ahmadu Bello University, – Zaria, Nigeria.**
4. Assistant Lecturer from February 2013 to January 2017.  
**Department of Electrical & Computer Engineering, Ahmadu Bello University, – Zaria, Nigeria.**

Computer Engineering is one of the 10 academic departments in the faculty of engineering, Ahmadu Bello University Zaria, Nigeria, a federal government owned research university widely recognized for its excellence in education and research across various fields, and is among the largest universities in Africa.

**Some of the services rendered includes; but are not limited to:**

- Conducting lectures and tutorials to facilitate learning among undergraduate and postgraduate students.
- Developing course outlines, syllabi, and instructional materials for courses taught.
- Conducting research and publishing findings in academic journals and conferences.
- Supervising research work by postgraduate (masters and doctoral) students.
- Engaging in community and outreach programs through academic seminars and workshops.
- Serving on academic committees and contributing to the governance of the university.
- Providing academic and career advice to students and guiding them towards their future goals.
- Participating in peer-review processes to assess the quality of research work and academic publications.
- Engaging in professional development activities such as attending conferences, workshops, and seminars to keep up with the latest developments in their field.
- Collaborating with other lecturers and researchers in their field and other institutions.

**Selected Publications**

- i. Abdullahi, B., Ibrahim, Y. M., Ibrahim, A. D., Bala, K., **Ibrahim, Y.**, & Yamusa, M. A. (2024). Development of machine learning models for classification of tenders based on UNSPSC standard procurement taxonomy. *International Journal of Procurement Management*, 19(4), 445-472. <https://doi.org/10.1504/IJPM.2024.137329>
- ii. Abdullahi, B., Ibrahim, Y. M., Ibrahim, A. D., Bala, K., **Ibrahim, Y.**, & Yamusa, M. A. (2024). Development of machine learning models for categorisation of Nigerian Government's procurement spending to UNSPSC procurement taxonomy. *International Journal of Procurement Management*, Vol.19 (1),pp.106 - 121. DOI: [10.1504/IJPM.2024.135175](https://doi.org/10.1504/IJPM.2024.135175)
- iii. **Ibrahim, Y.**, Bagaye, U. Y., & Muhammad, A. I. (2023). Machine Learning-Based Forest Type Mapping from Multi-Temporal Remote Sensing Data: Performance and Comparative Analysis. *Environmental Sciences Proceedings*, 29(1), 9. <https://doi.org/10.3390/ECRS2023-15848>
- iv. **Ibrahim, Y.**, Bagaye, U. Y., & Muhammad, A. I. (2023). Machine Learning for Accurate Office Room Occupancy Detection Using Multi-Sensor Data. *Engineering Proceedings*, 58(1), 67. <https://doi.org/10.3390/ecsa-10-16019>

- v. Shobowale, K. O., Mukhtar, Z., Yahaya, B., **Ibrahim, Y.**, & Momoh, M. O. (2023). Latest advances on security architecture for 5G technology and services. *International Journal of Software Engineering and Computer Systems (IJSECS)*, Vol. 9(1), 27-38. **Published:** 1 January 2023 **by** Faculty of Computing, Universiti Malaysia Pahang, Malaysia. **DOI:** <https://doi.org/10.15282/ijsecs.9.1.2023.3.0107>
- vi. Momoh, M. O., Shobowale, K. O., Abubakar, Z. M., Yahaya, B., & **Ibrahim, Y.** (2022). Blockchain Adoption in Aviation: Opportunities and Challenges. *International Journal of Electrical Engineering and Computing*, 6(2), pp. 92-97. **Published:** 2022-12-26 **by** Faculty of Electrical Engineering, University of East Sarajevo, Bosnia and Herzegovina. **DOI:** <https://doi.org/10.7251/IJEEC2202092M>
- vii. Okafor, E., Udekwe, D., **Ibrahim, Y.**, Bashir Mu'azu, M., & Okafor, E. G. (2021). Heuristic and deep reinforcement learning-based PID control of trajectory tracking in a ball-and-plate system. *Journal of Information and Telecommunication*, Vol. 5(2), 179-196. **Published:** 21 Oct 2020 **by** Taylor and Francis Ltd. **DOI:** <https://doi.org/10.1080/24751839.2020.1833137>
- viii. Okafor, E., Obada, D. O., **Ibrahim, Y.**, & Dodoo-Arhin, D. (2021). Prediction of the reflection intensity of natural hydroxyapatite using generalized linear model and ensemble learning methods. *Engineering Reports*, Vol. 3(2), e12292, pp. 1-16, **Published:** 15 October 2020 **by** WILEY Publishers. **DOI:** <https://doi.org/10.1002/eng2.12292>
- ix. **Ibrahim Y.**, Okafor, E., & Yahaya, B. (2020). Optimization of RBF-SVM Hyperparameters Using Genetic Algorithm for Face Recognition. *Nigerian Journal of Technology, (NIJOTECH)*, Vol. 39(4), pp.1190-1197. **Published:** October 2020 **by** Faculty of Engineering, University of Nigeria, Nsukka. **DOI:** <https://doi.org/10.4314/njt.v39i4.27>
- x. **Ibrahim, Y.**; Yusuf, U.B.; Muhammad, A.I. *Machine Learning-Based Forest Type Mapping from Multi-Temporal Remote Sensing Data: Performance and Comparative Analysis*, in Proceedings of the 5th International Electronic Conference on Remote Sensing, 7–21 November 2023, MDPI: Basel, Switzerland, **DOI:**[10.3390/ECRS2023-15848](https://doi.org/10.3390/ECRS2023-15848).
- xi. **Ibrahim, Y.**; Yusuf, U.B.; Muhammad, A.I. *Machine Learning for Accurate Office Room Occupancy Detection Using Multi-Sensor Data*, in Proceedings of the 10th International Electronic Conference on Sensors and Applications, 15–30 November 2023, MDPI: Basel, Switzerland, **DOI:**[10.3390/ecsa-10-16019](https://doi.org/10.3390/ecsa-10-16019).
- xii. **Ibrahim, Y.**, Okafor, E., Yahaya, B., Yusuf, S. M., Abubakar, Z. M., & Bagaye, U. Y. (2021, July). *Comparative study of ensemble learning techniques for text classification*. In 2021 1st International Conference on Multidisciplinary Engineering and Applied Science (ICMEAS) (pp. 1-5). IEEE. **DOI:** [10.1109/ICMEAS52683.2021.9692306](https://doi.org/10.1109/ICMEAS52683.2021.9692306)
- xiii. **Ibrahim, Y.**, Mu'azu, M. B., Adedokun, A. E., & Sha'aban, Y. A. (2017). *A Performance Analysis of Logistic Regression and Support Vector Machine Classifiers for Spoof Fingerprint Detection*. In Proceeding of the 3rd IEEE International Conference on Electro-Technology for National Development (NIGERCON), Owerri, Nigeria, November 7<sup>th</sup>–10<sup>th</sup>, 2017, pp. 1-5. IEEE. **DOI:** <https://ieeexplore.ieee.org/document/8281872>

## **Skills**

### **Soft Skills:**

☐ Problem Solving

### **Technical Skills:**

☐ Artificial Intelligence (AI) and Machine Learning (ML)

- |   |   |
|---|---|
| <input type="checkbox"/> Critical Thinking      | <input type="checkbox"/> Neural Networks and Deep Learning                |
| <input type="checkbox"/> Communication Skills   | <input type="checkbox"/> Computer Vision                                  |
| <input type="checkbox"/> Academic Writing       | <input type="checkbox"/> Natural Language Processing (NLP)                |
| <input type="checkbox"/> Presentation Skills    | <input type="checkbox"/> Data Science                                     |
| <input type="checkbox"/> Time management        | <input type="checkbox"/> Mathematical Modelling                           |
| <input type="checkbox"/> Teamwork               | <input type="checkbox"/> Algorithm Design                                 |
| <input type="checkbox"/> Adaptability           | <input type="checkbox"/> TensorFlow/ Keras                                |
| <input type="checkbox"/> Leadership             | <input type="checkbox"/> Scikit-learn                                     |
| <input type="checkbox"/> Emotional intelligence | <input type="checkbox"/> Pandas   |
| <input type="checkbox"/> Conflict resolution    | <input type="checkbox"/> Numpy  |
| <input type="checkbox"/> Creativity             | <input type="checkbox"/> Matplotlib                                       |
| <input type="checkbox"/> Active listening       | <input type="checkbox"/> Numerical Analysis (MATLAB)                      |
| <input type="checkbox"/> Decision making        | <input type="checkbox"/> Programming Languages (Python, Matlab)           |
| <input type="checkbox"/> Networking             | <input type="checkbox"/> Computer skills (Excel, Power Point, Word, etc.) |
| <input type="checkbox"/> Goal setting           |   |
| <input type="checkbox"/> Collaboration          |   |

### **Professional Service/Honour Societies**

- ☐ Council for the Regulation of Engineering in Nigeria (COREN) - R.40, 520

### **Interests/Hobbies**

- ☐ Coding
- ☐ Social media
- ☐ Movies

### **Profiles**

LinkedIn profile: [www.linkedin.com/in/yusuf-ibrahim-1b5062102](https://www.linkedin.com/in/yusuf-ibrahim-1b5062102)

Google Scholar: <https://scholar.google.com/citations?user=GIboxCkAAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0003-1942-4826>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57532395000>

Research gate: <https://www.researchgate.net/profile/Yusuf-Ibrahim-9>

### **References**

Available upon request

Signature:



Date: 15th February, 2025.