

IKEGWU, ANAYO CHUKWU, Ph.D

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=Nv1LbBsAAAAJ>



OBJECTIVE: To grow professionally in my chosen fields of specialisation while contributing positively to improving the efficiency, effectiveness, and productivity of any organisation

AREA OF INTEREST: I am an astute researcher in the field of big data analytics/ data science, machine learning, artificial intelligence, cybersecurity, and mobile health computing

PERSONAL DETAILS:

Sex:	Male
Date of birth:	5 th April 1985
State of Origin:	Ebonyi
Local Government of Origin:	Ohaukwu
Nationality:	Nigerian

WORK EXPERIENCE:

Period: Dec. 2024 till date || **Position:** Facilitator

Institution: National Open University of Nigeria (NOUN)

Duties: Facilitate and supervise student projects for undergraduate and Masters in computer science and IT-related courses such as data science, data processing, database management, embedded systems, computing system, AI/ML, multimedia technology, etc.

Period: May 2024 till date || **Position:** Postgraduate Research Committee member

Institution: Computer and Information Technology Department, Veritas University Abuja, Nigeria

Duties: Carry out strategic planning, research topic coordination, and scheduling of defence for Postgraduate students in the Computer Science and Information Technology Department of Veritas University Abuja.

Period: March 2024 till date || **Position:** Committee member, Faculty Journal and Conferences

Institution: Faculty of Natural and Applied Sciences, Veritas University Abuja, Nigeria

Duties: Committee member representing the Software Engineering Department for canvassing, planning, drafting, and establishing VIJNAS (Veritas International Journal of Natural and Applied Sciences) and conferences/workshops for the faculty of Natural and Applied Sciences (NAS) in the university

Period: February 2024 to June 2024 || **Position:** Data Science with Python Trainer

Institution: Veritas University Digital Skill Training Project, Innovation Grant Facility

Duties: Training the trainees in Data Science with Python, mentoring and assisting them in identifying and registering for international certification, and securing internship places after their training.

Period: November 2023 till date || **Position:** Lecturer 1

Institution: Software Engineering/Computer Science Department, Veritas University Abuja, Nigeria

Duties: Teaching undergraduate and postgraduate, researching, and supervising student projects, and community services

Period: January 2018-August, 2023 || **Position:** Senior Consultant

Company: AIC-Analyst Information Consulting Limited (RC: 1464719), Abakaliki, Ebonyi State

Duties: Provide Information Technology (IT) support for clients on career and product development, and advice to individuals and groups on IT-business development, sustainability, and success. Also, run services and training that are required to unleash the power of information for human career building, and economic development. I am teaching tutors in the organization to teach others. More so, research and create content for product branding, residual income support, and promotion for companies and business startups. Receive and resolve customers' requests and complaints. Further direct, strategize, monitor, and evaluate the company's strengths and weaknesses to meet the company's goal, vision, and mission statement

Period: September 2015 – August 2017 || **Position:** HOD/ICTFacilitator/Tutor

Company: DoveNet eSolutions Ltd, Abakaliki, Ebonyi State

Duties: Heading all the facilitators/tutors of the Academy, scheduling training, receiving class monitoring and evaluation reports and handing the same to the board of directors, training tutors to train others, resolving students' complaints and participating in conflict resolution, publishing session results, doing other jobs as may be assigned by the centre manager and board of directors, etc.

EXTRA CURRICULUM ACTIVITIES:

2021: CarTalk: Participated in a career talk for adolescents/youths on career selection and development. Also, in the development of children's interactive tutor outdoor game

2015: National Youth Service Corps

ACADEMIC QUALIFICATIONS:

Ph.D. in Cybersecurity (in view) 2024, Alex Ekwueme Federal University Ndifu-Alike

Ph.D. in Computer Science (Big Data Analytics): 2017-2023, Alex Ekwueme Federal University Ndifu-Alike

M.Sc. in Information Technology: 2015-2017, National Open University of Nigeria, Enugu

B.Sc. in Computer Science: 2008-2012, Ebonyi State University, Abakaliki

WAEC/NECO: 1999-2004, Urban Model Secondary School, Abakaliki

FSLCE: 1990-1995, Ole Okibe Primary School, Apa-Agila

SKILLS/SOFTWARE:

Python, Google PPT, Google Docs, Google Sheets, MS Office, WordPress, CorelDraw, Photoshop, Canva, Visual Studio, PHP&MySQL, Oracle 11g, etc.

INTERPERSONAL SKILLS:

Problem-solving: Able to use analytics to provide customer-focused and marketing solutions by measuring key performance indicators to draw our innovative solutions for implementation. I worked as an administrator and facilitator in DoveNet eSolutions Academy and as a Consultant at AIC-Analyst Information Consulting Ltd, where I have practically engaged and resolved a lot of issues

Communication: I can motivate others and foster a positive attitude to establish new procedures. As a Facilitator and Chief Information Analyst in a well-known and reputable firm, I effectively communicated with different audiences from all corners of the human sphere irrespective of their ages. In addition, competent in report writing and presentation delivery, as evident in my work and educational experiences

CERTIFICATIONS/PROFICIENCY CERTIFICATES:

July 2022, Accelerated Jobberman Soft Skill Training Certificate of Achievement

The soft skills required to engage in the organisational workforce were learned. These include personal effectiveness and time management, effective communication, employability skills, emotional and teamwork, creativity, critical thinking, problem-solving skills, etc. were learned

May-June 2022, Digital Marketing Skills/Digital Professional Certified

Digital Marketing Fundamentals: This is precisely focused on Blogging, Social Media Marketing, and Affiliate Marketing

November 2011 to June 2012, AfriHUB Nig. Ltd. Oracle Certified Administrator

I learned and demonstrated competent knowledge of the Oracle database management system (DBMS).

Generally, on how to create and manage individual and organisational databases

HOBBIES

(i) Sports: swimming (ii) Travelling and meeting new people (iii) Listening and discussing political and business news (iv) Electronic and computing gadgets (v) Researching, reading, and writing

PUBLICATIONS

Google Scholar Index (h-index:4, citations: 329), Scopus Index (: 4(5), Citations: 194)

Journals (14)

Mathew, D.E, Agozie E.H, **Ikegwu, A.C.**, Udanor, C. N., Okereke, G.E., Ukeoma, P. E., Dibiaezue, N.F., & Bakpo, F.S. (2025). Performance Evaluation of Machine Learning Models for Hyper Localized Weather Prediction Using IoT Data in Nsukka City Nigeria. *Scientific Report. Undergoing final revision peer review*

Ikegwu, A. C., Alo, U. R. & Nweke, H. F. (2025). Cyber Threats in Mobile Healthcare Applications: Systematic Review of Enabling Technologies, Threat Models, Detection Approaches, and Future Directions. *Discover Computing. Scientific Report. Undergoing final revision peer review*

Ikpo, C. V, Chinedu, P. U., Ogbimi, E. F., **Ikegwu, A. C.**, Nweke, H. F., & Nwankwo, W. (2025). Innovative Application of Socio-Cultural- System-Inspired Algorithms in IoT and Smart Systems Optimization. *2024 IEEE 5th International Conference on Electro-Computing Technologies for Humanity (NIGERCON)*, 1–5. <https://doi.org/10.1109/NIGERCON62786.2024.10927355>

Mathew, D.E, Ebem, D.U., **Ikegwu, A.C.**, Ukeoma, P. E., & Dibiaezue, N.F. (2025). Recent Emerging Techniques in Explainable Artificial Intelligence to Enhance the Interpretable and Understanding of AI Models for Human. *Neural Processing Letters*, 57(16). <https://doi.org/10.1007/s11063-025-11732-2>

Ikegwu, A. C., Obianuju, O. J., Nwokoro, I. S., Ofuru, M., & Ebem, D. U. (2025). Investigating the Impact of AI/ML for Monitoring and Optimizing Energy Usage in Smart Home. *Artificial Intelligence Evolution*, 6(1), 30–43. <https://doi.org/https://doi.org/10.37256/aie.6120256065>

Ikegwu, A. C., Nweke, H. F., Mlpojiogu, E., Anikwe, C. V., Igwe, S. A., & Alo, U. R. (2024). Recently Emerging Trends in Big Data Analytic Methods for Modeling and Combating Climate Change Effects. *Energy Informatics*. <https://doi.org/10.1186/s42162-024-00307-5>

Ikegwu, A. C., Nweke, F. H., & Anikwe, C. V. (2024). Recent trends in computational intelligence for educational big data analysis. *Iran Journal of Computer Science*, 7(1), 103–129. <https://doi.org/10.1007/s42044-023-00158-5>

Ikegwu, A. C., Nweke, H. F., Alo, U. R., Anikwe, C. V., & Okonkwo, O. R. (2022). Methodology For System Development And Object-Oriented Programming Paradigm In Real-Time Problem-Solving. Nigeria Computer Society (NCS); *International Journal of Computer Science and Its Applications (JCSA)*, 29 (1), 41-49

Anikwe, C. V., **Ikegwu, A. C.**, Nweke, H. F., Onu, F. U., Alo, U. (2022). Exploring the Wearable and Mobile Sensors for Sustainable and Efficient Health Monitoring Systems in Post Covid-19. Nigeria Computer Society (NCS); *International Journal of Information Security, Privacy And Digital Forensics (JISPDF)*, 6 (1)

Ikegwu, A. C., Nweke, H. F., Anikwe, C. V., Alo, U. R., & Okonkwo, O. R. (2022). Big data analytics for data-driven industry: a review of data sources, tools, challenges, solutions, and research directions. *Cluster Computing*. <https://doi.org/10.1007/s10586-022-03568-5>

Anikwe, C. V., Nweke, H. F., **Ikegwu, A. C.**, Egwuonwu, A. C., Onu, F. U., Alo, U. R., & Wah, T. Y. (2022). Mobile and wearable sensors for data-driven health monitoring system: State-of-the-art and future prospect. *Expert Systems with Applications*, 202, 117362 <https://doi.org/10.1016/j.eswa.2022.117362>

Ikegwu, A.C., Igwe, J. S., & Nwebonyi, F. (2017). The Impact of Data Backup and Recovery in Organizational Development: Oracle 11g Perspectives. *International Journal of Electronics Communication and Computer Engineering*, 8(4). Available online: <http://ijecce.org/index.php/issues.com>

Ikegwu, A. C., Nweke, H. F., & Ugwu, G. E. (2017). Digital Fingerprint and Forensic Examination as a Technology for Cybercrime Detection and Prevention in Nigeria. *The SIJ Transactions on Industrial, Financial & Business Management (IFBM)*, 5(5). Available online: www.thesij.com

Henry, N. F., Gabriel, U. E., & **Anayo, I. C.** (2015). *Design of Project Activities Tracking System for Enhanced Project Management in Nigeria*. 2(4), 925–937

Conference Presentations/Attendance (9)

Ikegwu, A. C., Egwu, S. O., Longkang, E. L., Okike, R., Nweke, H. F., & Nwokoro, I. S. (2024). Recently Emerging Trends in Embedded Computer Vision for Object Detection, Recognition, and Tracking. *Nigeria Computer Society: International Conference on Technological Solutions for Smart Economy, SmartEco2024*, 35, 180–188.

Kama, M. O., **Ikegwu, A. C.**, Agubata, I. C., Onah, J. O., Olajire, J. A., Amajiri, C., Isiaka, M. O., Amajiri, C., Ebem, D. U., & Nwokoro, I. S. (2024). Implementation of eHealth Framework for Medical Image Analysis using Human-centred Artificial Intelligence for Cardiovascular Diseases. *Nigeria Computer Society: International Conference on Technological Solutions for Smart Economy, SmartEco2024*, 35, 204–212.

Nweke, H., **Ikegwu, A. C.**, Nwafor, C. A., & Ogbaga, I. N. (2024). Smartphone-based human activity recognition using Artificial Intelligence Methods and Orientation Invariant Features. *Nigeria Computer Society: International Conference on Technological Solutions for Smart Economy, SmartEco2024*, 35, 313–319.

Ikegwu A.C. (2024). Speaker/Presenter on “*The Application of AI-Assisted Tools in Academic Research Development*”. Annual Engr. Supreme Ayewoh Okoh Memorial Research Colloquium at Veritas University Abuja, Nigeria. 31st May 2024.

Ikegwu A.C. (2024). Attended the conference with the team “*Artificial Intelligence (AI) and the Future of Academia; Leaving or living the trend*”. 1st International Conference on AI at Iconic Open University and Sokoto State University, Nigeria.

Ikegwu, A. C., Nweke, H. F., Alo, U. R., & Okonkwo, O. R. (2021). HMCAPAED: A New Framework for Student Dropout Prediction. Proceedings of the 2nd International Conference on ICT for National Development and Its Sustainability, Faculty of Communication and Information Sciences, University of Ilorin, Ilorin, Nigeria- 2021, 131–140. ilorinujipc.com.ng

Ikegwu, C. A., Nweke, F. H., Alo, U. R., & Okonkwo, O. R. (2021). Exploring Big Data Analytics Methods for Combating Climate Change for Sustainable Development in Post Covid-19. *International Conference on Resource Extraction for Sustainable Development in a Post COVID-19 Era (RESUD 2021)*, 1–10

Anikwe, V. C., **Ikegwu, C. A.**, Nweke, F. H., Onu, U. F., & Alo, U. R. (2021). Assessing the Impact of Wearable and Mobile Sensors for Sustainable Health Monitoring in Post Covid-19. *International Conference on Resource Extraction for Sustainable Development in a Post COVID-19 Era (RESUD 2021)*, 1–12

Onwe, F. N., Alo, U. R., Nweke, H. F., & **Ikegwu, A. C.** (2021). Digital Protective Equipment against Contagious Diseases: A Panacea to Economic Recovery for Attaining Sustainable Development Goals.

Book Chapter

Ikegwu, A. C., Alozieuwa, U. B., & Nweke, H. F. (2025). Cultural Diversity in the Digital Age: Leveraging AI and Technology to Preserve and Promote Nigeria's Cultural Heritage. In P. A. Okebukola (Ed.), *Cultural Odyssey: 20 Years of Implementation of UNESCO's 2005 Convention in Nigeria* (pp. 191–202). Sterling Publishers, Slough UK; Delhi India.

Mini Book

Ikegwu, A.C. (2012). *Success Formular: The Realization of 1st Class/2nd Class Upper Division for Universities, Polytechnics, Colleges of Education and other Tertiary Institutions.* Enugu: Victory Press

Thesis

Ikegwu, A.C. (2023). Big Data Analytics Framework for Prediction of Student Academic Performance. Ph.D., Thesis Research Submitted to the Department of Computer Science and Informatics, Alex Ekwueme Federal University, Ndifur-Alike, Ebonyi State

Dissertation

Ikegwu, A.C. (2016). Development and Evaluation of a Knowledge Discovery System for Large Organizational Databases. M.Sc., Dissertation Project Submitted to the Department of Computer Science/Information Technology, National Open University of Nigeria, Enugu State

Project

Ikegwu, A.C. (2012). An Issue Tracker Application on Project Management. B.Sc., Project Submitted to the Department of Computer Science Ebonyi State University, Abakaliki, Ebonyi State

REVIEWER CERTIFICATE AWARD:

2025 – Certificate of Reviewer in recognition of their contribution to Journal of Big Data
2025 – Certificate of Reviewer in recognition of their contribution to World Wide Web
2025 – Certificate of Reviewer in recognition of their contribution to Discover Computing
2025 – Certificate of Reviewer in recognition of their contribution to Discover Applied Sciences
2025 – Certificate of Reviewer in recognition of their contribution to Artificial Intelligence Review
2024 – Certificate of Reviewer in recognition of their contribution to Artificial Intelligence Review
2024 - Certificate of Excellence in Reviewing from the Indonesian Journal of Electrical Engineering and Computer Science
2023 – Certificate of Reviewer in recognition of their contribution to Journal of Supercomputing
2022 - Certificate of Excellence in Reviewing from the Current Journal of Applied Science and Technology

ASSOCIATION/PROFESSIONAL BODY:

Member: Nigeria Computer Society (NCS);

Member: Nigeria Foundation for Artificial Intelligence (NFAI)

Member: Institute of Electric and Electronics Engineers (IEEE)

Member: Association of Computing Machinery (ACM)

State Organizing Secretary: National Open University of Nigeria Alumni Association (NOUNAA)

REFEREES

Asso. Prof. Deborah Uzoamaka Ebem (Mrs.)

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