

UMAR BABA UMAR

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📍 Federal University of Technology-Niger State Nigeria

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RESEARCH INTEREST

Machine Translation, Semantic Parsing, Natural Language Processing and Understanding, Multilingual NLP, African Linguistics

EDUCATION

M.Tech in Management Information Technology (First Class Honors): 4.92/5.0 2019 – 2023

Abubakar Tafawa Balewa University- Bauchi (Nigeria)

Thesis: Improved Data availability and Privacy Model using Differential Privacy

Advisor: Dr. K.I Musa

Master of Science in Information Technology (Second Class Upper): 4.23/5.0 2020 – 2022

Bayero University Kano-Kano (Nigeria)

Thesis: NLP-based medical diagnosis model with retrieval of

Doctors' transcription for Diagnosis

Advisor: Prof. Abdulwahab Lawan

2012 – 2018

Bachelor of Technology in Information Technology (Second Class Upper): 3.95/5.0

Federal University of Technology- Minna (Nigeria)

Thesis: Hausa -English Machine Translation Using Attention Mechanism

Advisor: Dr. Imavah Shaka

RESEARCH EXPERIENCE

Research Assistant, Information Technology Dept., Abubakar Tafawa Balewa Uni 2022
Data Collection and Corpus building

Advisor: Dr. Kabir I Musa

Research Assistant, Information Technology Dept., Federal University of Technology 2020
Data collection, web experimental design, determine app interaction and enhancements.

Advisor: Dr. Adam M. Noma

Raw Material Research and Development Council

Partook in GIS Portal Research, helped developed Security features for the website

PUBLICATIONS

Umar. B. U and Abbass. Y. Y (2023) An Improved Data Privacy and Data availability Model for Medical Diagnosis System using combination of Differential Privacy and Synthpop Technique- Journal of Science and Technology Anchor University-52-70

Umar. B. U (2022) Application of Machine Learning Algorithm in Medical Diagnosis System; A methodological Review- International Research Journal of Modernization in Engineering Technology and Science, 2022

Umar. B. U (2022) Incentive-based Collaborative Recommender system using metaheuristic algorithm approach- Journal of Information Resource Management

Umar. B. U et al., (2019) Design and Implementation of Examination Time Table using Genetic algorithm– 3rd International Engineering Conference (IEC) 2019

PUBLICATIONS UNDER REVIEW

Natural Language Processing Journal (Elsevier) 2022
Comparison of ten Open Source NMT Frameworks for very low -Resourced English-Nupe Machine Translation with Cultural Relevance Evaluation

Theme: Linguistics in Digital Age

Asian journal of Low resource Languages (Scopus) 2023
Medical Diagnosis system with doctor notes using Natural Language Processing

CONFERENCES

3rd International Engineering Conference (IEC) 2019

Development of a Model for Generation of Examination Timetable Using Genetic Algorithm

SCHOLARSHIPS AND AWARDS

National Information and Development Fund Postgraduate Scholarship (NITDEF) <i>-Awarded to the 37 Best Information Technology Students in Nigeria</i>	2020
Petroleum Technology Development Fund Scholarship (PTDF). <i>-Awarded to 15 Best Students from each State, Nigeria</i>	2022
Udacity Data analytics Scholarship. <i>-Awarded to 5,000 Students from Africa by AL-XT to study Data Analytics</i>	2019
Certificate of meritorious Service (National Association of Library and Information Technology) - <i>-Awarded for my Excellent service as P.R. O</i>	2017
Merit Award (Annual Inter-house Sports and Athletics Competition)- <i>-Awarded as the Best Athlete</i>	2019

TEACHING ASSISTANTSHIP/EXPERIENCE

– Teaching Assistant Advance Database Management, Java Programming, Abubakar Tafawa Balewa University (Under Dr K. I. Musa)	2021 – 2023
– Computer Tutor Teaching and Training IT students How to use the Computer and Java Programming language	2016 – 2019

LEADERSHIP RESPONSIBILITIES

P.R.O <i>National Association of Information Technology Students, Federal University of Technology</i>	2016 - 2017
FACILITATOR <i>Data Science of Nigeria</i>	2021 – 2022

PROFESSIONAL AFFILIATIONS

Nigeria Computer Society <i>Member</i>	2020 – present
Association of Computing Machinery <i>Member</i>	2022 – present
IEEE (Computer Society and Computational Intelligence Society) <i>Member</i>	2022 – present
Institute of Information Management <i>Member</i>	2022 – present
Nigeria Mathematics Society (NMS) <i>Member</i>	2022 – present
International Association of Computer and Information Technology <i>Member</i>	2022 – present

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Java Programming Certificate, <i>Via Amitech Computer Training Center</i>	2022
ALX Software Engineering <i>Via ALX Africa</i>	2022
ALX Data Analysis Nanodegree <i>Via ALX Africa</i>	2022
Data Visualization with Python <i>Via IBM</i>	2022
Web development <i>Via Amitech Computer Training Center</i>	2022

TECHNICAL SKILLS

Python: Pytorch, TensorFlow,
Data Collection: BeautifulSoup, Selenium, Twitter scraping, PDF text Extraction
Data Cleaning: Regrex,
Annotation: spaCy, NLTK, Stanford NLP
Office: Word; Excel; PowerPoint
Machine Learning
SPSS, Strata, SmartPLS
Linux, Shell, Git, VI, Vim
Programming: PHP, HTML, JavaScript, Java, C++

LANGUAGE SKILLS

Nupe: Native Speaker
Hausa: Native Speaker
English: Bilingual Proficiency
Nigerian Pidgin: Native Speaker
Arabic: Intermediate

REFEREES

Prof. A.Y Dutse

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