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ACADEMIC APPOINTMENTS

Date	Position	Job Description	Employer
2024	Lecturer	<ul style="list-style-type: none">Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)VMware Data Center Virtualization: Core Technical SkillsRed Hat System Administration I (RH124)OF450: MongoDB Ops Manager	Tahaluf Al Emarat Technical Solutions
2020 - 2023	Part-time Lecturer	Teaching Data Analytics, AI	Sudanese Academy of Financial and Banking Studies, Sudan
06/2019–03/2020	Research Assistant(RA)	Published more than 3 WoS, ISI papers first author.	University of Malaya, Malaysia

PROFESSIONAL EXPERIENCE

Date	Position	Job Description	Employer
02/2023 Present	Head of ITC	<ul style="list-style-type: none">Completed the construction of a new data centre with a 100% completion rate.Achieved a 97% success rate in data recovery operations.Established a global backup and recovery protocol for 80% of the systems and data.Increased system availability to 98% by transitioning to a cloud-based infrastructure.	Sudanese standard and metrology Org. (SSMO), Sudan
03/2020 – 02/2023	Data Analyst	<ul style="list-style-type: none">dynamically identify and acquire data from various sources, and efficiently structure the data into accessible and practical formats for analysis, increasing the accuracy by 30%.Conduct thorough analysis to derive meaningful insights in response to targeted business inquiries by 60%.Develop, deploy, and accurately maintain database systems to ensure seamless data integration to improve the result by 17%.	Sudanese standard and metrology Org. (SSMO), Sudan
01/2013 – 10/2016	Head of electronic Library and Archive	<ul style="list-style-type: none">Spearheaded the integration of advanced technical tools to develop an electronic archive system, resulting in a 50% reduction in paper usage and improved data accessibility and retrieval efficiency	Sudanese standard and metrology Org. (SSMO), Sudan
03/2010 – 01/2013	Head of IT	<ul style="list-style-type: none">Led a multifaceted team of 8 network engineers, 10 software developers, and 7 technical support staff, nurturing an environment of teamwork and peak efficiency to achieve 80% organization strategy Gole.Directed the development of the main office's network framework and key data center, which includes 7 high-capacity servers 97%.Effectively broadened the network system to encompass 27 branch offices, with 10 branches fully integrated with the main office, enhancing overall connectivity by 73%.	Sudanese standard and metrology Org. (SSMO), Sudan

EDUCATIONAL SUMMARY

2017 - 2022	PhD. Computer Science- NLP - University of Malaya, (UM), Top 100 universities in last 2022 QS world universities ranking. Thesis "A Translation Model Using Hybrid Approaches to Improve Saudi Arabic Dialect Sentiment Analysis in Business Tweets", Associate Prof. Dr. Norisma Idris, The findings were published in MDPI Sustainability (WoS, ISI –Q1,Q2)
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2006 - 2008	Master – Information Technology - University of Malaya, Malaysia
2003 - 2004	Postgraduate Diploma in Information Technology – Al Neelain University - Sudan
1999 - 2002	BSc. Business Administration - Omdurman Islamic University- Sudan

RESEARCH INTERESTS AREA

- Arabic Sentiment Analysis & Natural Language Processing (NLP)
- Data maiming
- Hate speech detection.
- Machine Translation.
- Social Media Analysis
- Cloud Computing

RESEARCH PUBLICATIONS

1. Alhazmi, **Mohamed E.M. Abo** et al, and Christopher Eke. "Code-mixing unveiled: Enhancing the hate speech detection in Arabic dialect tweets using machine learning models" in PLoS ONE (2024) <https://doi.org/10.1371/journal.pone.0305657>
2. A. Qazi, N. Hasan, R. Mao, **M. E. M. Abo**, S. K. Dey and G. Hardaker, "Machine Learning-Based Opinion Spam Detection: A Systematic Literature Review," in IEEE Access, doi: 10.1109/ACCESS.2024.3399264 (2024).
3. Alhazmi, **Mohamed E.M. Abo** et al, and Christopher Eke. "A systematic literature review of hate speech identification on Arabic Twitter data: research challenges and future directions." PeerJ Computer Science 10 (2024): e1966.
4. **Abo, Mohamed Elhag M**, Atika Qazi, Ahmed Adel Ahmed Saad, Hager Ali Elshahib, Ahmed Abdelaziz " Sentiment Analysis in Saudi Arabic Dialect for HAJJ Season Services Using Twitter Data "2022 1st International Conference on Logistics (ICL)
5. **Abo, Mohamed Elhag M**, Mas Idayu Binti Md Sabri" Overview of an application of a web portal to aid for a networked rental of property. "2021, Sud. J. Stnds. Metrol
6. **Abo, Mohamed Elhag Mohamed**, Norisma Idris, Rohana Mahmud, Atika Qazi, Ibrahim Abaker Targio Hashem, Jaafar Zubairu Maitama, Usman Naseem, Shah Khalid Khan, and Shuiqing Yang. "A Multi-Criteria Approach for Arabic Dialect Sentiment Analysis for Online Reviews: Exploiting Optimal Machine Learning Algorithm Selection." Sustainability 13, no. 18 (2021): 10018.
7. Alghazzawi, Daniyal, Atika Qazi, Javaria Qazi, Khulla Naseer, Muhammad Zeeshan, **Mohamed E.M. Abo**, Najmul Hasan, Shiza Qazi, Kiran Naz, Samrat K. Dey, and Shuiqing Yang. 2021. "Prediction of the Infectious Outbreak COVID-19 and Prevalence of Anxiety: Global Evidence" Sustainability 13, no. 20: 11339.
8. **Abo, Mohamed Elhag M**; Shah, Nordiana Ahmad Kharman; Balakrishnan, Vimala; Kamal, Mohamed; Abdelaziz Ahmed; Haruna, Khalid; SSA-SDA: Subjectivity and sentiment analysis of Sudanese dialect Arabic, 2019 International Conference on Computer and Information Sciences (ICCIS), 1-5, 2019, IEEE
9. **Abo, Mohamed Elhag Mohamed**, Ram Gopal Raj, and Atika Qazi. "A Review on Arabic Sentiment Analysis: State-of-the-Art, Taxonomy and Open Research Challenges." IEEE Access 7, no. 1 (2019): 162008-24.
10. **Abo, Mohamed Elhag M**; Shah, Nordiana Ahmad Kharman; Balakrishnan, Vimala; Abdelaziz Ahmed; , Sentiment analysis algorithms: evaluation performance of the Arabic and English language, "2018 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE)", 1-5, 2018, IEEE

11. **Abo, Mohamed Elhag M**, Nordiana Ahmed, and Vimala Balakrishnan. "Arabic Sentiment Analysis: An Overview of the MI Algorithms." Faculty of Computer Science and Information Technology, University of Malaya. Malaysia, 12 July 2018 2018.

EXPOSITION AND SEMINARS ATTENDED

- 2019 International Conference on Computer and Information Sciences (2019 ICCIS) Jouf University, Al jouf, Saudi Arabia.
- 2018 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCEEE) Khartoum University, Sudan.
- ARAB RESEARCHER ID Conference 27 April 2017 University of Malaya Malaysia KL
- Mobile Application in Libraries and Information Centers Workshop In collaboration with (IFLA) (Oman – Jordon) 2015
- The 26th Annual Conference of the libraries of the Arab Federation for Libraries and Information (Oman – Jordon)
- The 14th International Arab Conference on Information Technology (ACIT) (Khartoum – Sudan)

PROFESSIONAL COURSES AND CERTIFICATES

Data Analysis with R Programming	Certification
Google Data Analytics	Certification
Google Data Analytics Capstone: Complete a Case Study	Certification
Google Data Analytics Specialization	Certification
Share Data Through the Art of Visualization	Certification
Analyze Data to Answer Questions	Certification
Process Data from Dirty to Clean	Certification
Prepare Data for Exploration	Certification
Ask Questions to Make Data-Driven Decisions	Certification
Foundations: Data, Data, Everywhere	Certification
Machine Learning Foundations: A Case Study Approach	Certification
skills of executive secretary and office administration 2003,information security according to international standards ISM	Training Course
Cisco certified network security professional	Training Course
ITIL v3 Foundation	Certification
Advanced Research Phenomena: High-impact research (HIR)	Training Course
introduction to R for Data science	Training Course
information technology management according to international standards (ISM)	Training Course

SUBJECTS TAUGHT

- Database Design and development
- Introduction to Artificial Intelligence
- Data Analytics
- Computer Application
- Computing Networking CISCO CCNA

TECHNICAL SKILLS

- Skilled in database management with expertise in SQL and MySQL.
- MS Azure infrastructure management, database management, and software development.
- MS Azure fundamental cloud, architectural components and core services, including compute, networking, and storage.
- Proficient in multiple programming languages including Python (Jupyter, Git), ASP.Net, Tableau, and R.
- Deep understanding of data structures, algorithms, advanced sorting, and searching techniques.
- Experienced in different machine learning approaches and artificial intelligence, especially natural language processing (Text classification, Speech processing).

- Deep Learning frameworks (TensorFlow, PyTorch, and Keras).
- NLP tools (NLTK, spaCy, Hugging Face Transformers).
- Knowledgeable in various operating systems: Linux, Windows, and macOS.
- Linux, and mac OS x administrator and trapshooting.
- Understand computer networking protocols like TCP/IP, HTTP, and DNS.
- Possesses strong communication skills, teamwork abilities, problem-solving aptitude, leadership, and meticulousness.

SUPERVISION - PhD students

- **(2023)** Hate Speech detection in unstructured Arabic dialect tweet, **Ali Alhazmi**, Universiti Malaya (Ongoing), (Co-supervisor (External))

SUPERVISION - Master students:

- **(2023)** DIGITAL TRANSFORMATION: Sudan's banking sector's readiness to adopt ERP System, **Roaa Noaman Ali**, Sudanese Academy of Financial and Banking Studies (Ongoing).
- **(2023)** The impact of information systems on the effectiveness of human resources management in Sudanese banks, **Renas abood mohamed alamin**, Sudanese Academy of Financial and Banking Studies (Ongoing).

SUPERVISION - UG students

- 2022/2023, Interactive system for recognizing handwritten Arabic characters, (End)
- 2022/2023, Interactive image recognition system, (End)
- 2022/2023, Interactive real estate management system, (End)

JOURNAL REFEREES

- Social Network Analysis and Mining (IF - 3.87)

REFERENCE:

Available on request.

