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● WORK EXPERIENCE

26/10/2015 – 20/08/2019 Kassala, Sudan

INFORMATION TECHNOLOGY (IT) LECTURER UNIVERSITY OF KASSALA

My job role as an IT lecturer:

- **Teaching:** Preparing and delivering lectures, lead tutorials, and conduct practical sessions for undergraduate and postgraduate IT courses.
- **Course Development:** Designing and updating course syllabi, develop learning outcomes, and create teaching materials to ensure the curriculum is up-to-date and relevant.
- **Student Assessment:** Designing and administering assessments, including exams, projects, and assignments, to evaluate students' understanding of the subject matter.
- **Research:** Engaging in research activities, publish academic papers, and contribute to the advancement of knowledge in the field of information technology.
- **Mentoring and Advising:** Providing academic guidance and mentorship to students, helping them with career planning and academic development.
- **Academic Administration:** Participating in departmental meetings, serve on committees, and contribute to academic governance.
- **Industry Engagement:** Collaborating with industry partners, participate in professional organizations, and facilitate internships or industry-based projects for students.
- **Continuous Learning:** Staying abreast of the latest developments in IT, attend conferences, and engage in professional development to enhance their expertise.
- **Campus and Community Involvement:** Actively participate in campus activities, community outreach, and interdisciplinary collaborations to enrich the university's academic environment.

17/04/2012 – 25/10/2015 Kassala, Sudan

INFORMATION TECHNOLOGY (IT) TEACHING ASSISTANT UNIVERSITY OF KASSALA

My job role as an IT teaching assistant:

- **Classroom support:** Assisting lecturers in conducting lectures, tutorials, lab sessions, demonstrating hands-on exercises, and ensuring a smooth learning experience for students.
- **Grading and Evaluation:** Participating in grading assignments, quizzes, exams, and other assessments. Provide constructive feedback to students and assist in maintaining accurate records of grades.
- **Student Assistance:** Offering additional support to students by holding office hours, responding to questions through email or discussion forums, and providing clarifications on course content or assignments.
- **Course Material Preparation:** Aiding in preparing course materials, including lecture slides, handouts, and online resources.
- **Lab Assistance:** In laboratory courses, supervising students during practical sessions, ensure safety protocols are followed, and help troubleshoot technical issues.
- **Mentoring and Advising:** Acting as mentor or advisor to students, offering academic advice and guidance related to the course or the broader field of IT.
- **Proctoring Exams:** During exam periods, assisting in proctoring exams to maintain a fair and secure testing environment.

- Support for Online Learning: With the growing importance of online education. Assisting in managing virtual classrooms, facilitating online discussions, and addressing technical challenges.
- Research Support: Collaborating with faculty on research projects and assist in gathering data, conducting experiments, or analyzing results.
- Assisting with Workshops and Events: Supporting the organization and execution of workshops, seminars, and other events related to the IT department.

● EDUCATION AND TRAINING

01/09/2019 – 08/01/2024 Miskolc, Hungary

PHD - INFORMATION TECHNOLOGY (MACHINE LEARNING) University of Miskolc

Address Egyetem út 1, 3515, Miskolc, Hungary

03/08/2013 – 26/10/2015 Khartoum, Sudan

MSC - INFORMATION TECHNOLOGY (SOFTWARE ENGINEERING) University of khartoum

Address JG5R+WXF, 11111, Khartoum, Sudan

02/09/2006 – 11/10/2011 Kassala, Sudan

BSC. HONS. IN INFORMATION SYSTEMS (FIRST CLASS) University of Kassala

Address C9XJ+2HM, 31111, Kassala, Sudan

01/02/2003 – 05/03/2006 Al-Qadarif, Sudan

SECONDARY SCHOOL Al-Qadarif New Secondary School

Address 3C37+JG2, 3C37+JG2, Al-Qadarif, Sudan

18/11/2023 – 18/12/2023

GETTING STARTED WITH NEURAL NETWORKS Analytics Vidhya

Website <https://courses.analyticsvidhya.com/>

16/11/2023 – 16/12/2023

NANO COURSE: BUILDING LARGE LANGUAGE MODELS FOR CODE Analytics Vidhya

Website <https://courses.analyticsvidhya.com/>

13/11/2023 – 13/12/2023

INTRODUCTION TO PYTHON Analytics Vidhya

Website <https://courses.analyticsvidhya.com/>

23/11/2023 – 07/12/2023

INTRODUCTION TO NATURAL LANGUAGE PROCESSING Analytics Vidhya

Website <https://courses.analyticsvidhya.com/>

01/10/2023 – 14/11/2023

MACHINE LEARNING CERTIFICATION COURSE FOR BEGINNERS Analytics Vidhya

Website <https://courses.analyticsvidhya.com/>

01/07/2018 – 05/07/2018 Kassala, Sudan

A TRAINING COURSE IN DEVELOPING THE PROFESSIONAL COMPETENCIES FOR UNIVERSITY PROFESSORS University of Kassala

Address C9XJ+2HM, 31111, Kassala, Sudan

18/11/2018 – 22/11/2018 Kassala, Sudan

A TRAINING PROGRAM IN DATA ANALYSIS USING SPSS University of Kassala - Faculty of Graduate Studies and Scientific Research

Address C9XJ+2HM, 31111, Kassala, Sudan

07/04/2017 – 09/04/2017 Khartoum, Sudan

A TRAINING COURSE ON PEACE BUILDING AND CONFLICT RESOLUTION The National Center for Peace and Development

Address JG5R+WXF, 11111, Khartoum, Sudan

22/07/2017 – 22/07/2017 Kassala, Sudan

A TRAINING PROGRAM ON HOW TO WRITE A SCIENTIFIC PAPER University of Kassala - Faculty of Computer Science and Information Technology

Address C9XJ+2HM, 31111, Kassala, Sudan

08/10/2017 – 12/10/2017 Khartoum, Sudan

A TRAINING PROGRAM ON SCIENCE & TECHNOLOGY & INNOVATION (STI) Sudan Academy of Sciences

Address JG5R+WXF, 11111, Khartoum, Sudan

05/09/2015 – 10/09/2015 Khartoum, Sudan

THE BASIC COURSE IN THE PROFESSIONAL DEVELOPMENT FOR FACULTY MEMBERS
Continuing Professional Development Center

Address JG5R+WXF, 11111, Khartoum, Sudan

● LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	A1	A1	A1	A1	A1
HUNGARIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Organizational and planning skills | Team-work oriented | Written and Verbal skills | Good listener and communicator | Analytical skills | Internet user | Critical thinking | Project Management tools |  Microsoft Office Suite | Data Analysis tools | Web Designing & Web Development | Programming in modern programming languages

● ADDITIONAL INFORMATION

DRIVING LICENCE

Driving Licence: A2

Driving Licence: B

HOBBIES AND INTERESTS

Foot Ball

Table Tennis

Volunteer Work

Language Learning

TECHNICAL SKILLS AND COMPETENCIES

Programming Languages:

- Proficiency in programming languages such as Python, Java and C++, with a focus on the languages that are most relevant to the job or industry.

Web Development:

- Skills in front-end web development using HTML, CSS, JavaScript and PHP.

Database Management:

- Proficiency in working with database management systems (DBMS) such as MySQL and Oracle, including data modeling, query optimization, and database administration.

Software Testing and Quality Assurance:

- Proficiency in software testing methodologies, tools, and frameworks, including manual testing, test automation, regression testing, and defect tracking.

Operating Systems:

- Familiarity with different operating systems such as Windows, Linux and macOS, including knowledge of system administration and troubleshooting.

Project Management:

- Competence in project management methodologies such as Agile and Scrum, including skills in planning, organizing, and coordinating project activities, as well as communication and stakeholder management.

Ability to work independently and prioritize workload:

- Ability to work autonomously and make sound decisions to drive projects forward and achieve goals.
- Successfully handled multiple responsibilities concurrently, effectively prioritizing tasks based on urgency, importance, and impact on overall objectives.
- Adapt well to changing priorities and handled unexpected challenges by quickly assessing and adjusting plans accordingly.
- Effectively communicated with stakeholders, keeping them informed of progress, potential roadblocks, and revised timelines as necessary.

Ability to work as a team work:

- Actively contributing to team projects and fostering a positive and inclusive work environment.
- Ability to effectively communicate and collaborate with team members from diverse backgrounds and with different skill sets.
- Listen to team members' perspectives, ideas, and feedback, valuing their contributions and integrating them into the decision-making process.
- Engaged in constructive problem-solving and decision-making discussions, encouraging open dialogue and considering multiple viewpoints to reach consensus.
- Flexibility and adaptability in team settings, adjusting to changing dynamics, roles, and responsibilities to ensure project success.
- Proactively sought opportunities to assist and support team members, offering help, guidance, and sharing knowledge to achieve collective goals.
- Maintained effective and timely communication within the team, providing updates, progress reports, and addressing any challenges and roadblocks that arise.

AREA OF EXPERTISE/INTEREST

Code Review, Version Control and Bug-Tracking:

- Proficiency in conducting thorough code reviews to ensure code quality, adherence to coding standards, and identifying potential issues and improvements.
- Knowledge of code review tools and practices, such as pull requests in Git, Gerrit, and Crucible, to facilitate efficient and effective code reviews.
- Ability to assess code logic, identify bugs, and offer solutions or alternative approaches to enhance code quality and performance.
- Proficient in utilizing version control systems, such as Git, SVN, and Mercurial, for source code management and collaborative development.
- Experience with branching, merging, and resolving conflicts in version control workflows, enabling efficient team collaboration and code synchronization.
- Knowledge of version control best practices, including commit conventions, branching strategies (e.g., GitFlow), and maintaining a clean commit history.
- Familiarity with popular version control platforms and tools, such as GitHub, GitLab, and Bitbucket, for code hosting, collaboration, and issue tracking.
- Strong understanding of the importance of version control for code traceability, bug tracking, and release management in software development projects.
- Proficient in utilizing bug tracking systems, such as Jira, Bugzilla, and Trello, to log, track, and manage software defects and issues.
- Experienced in accurately documenting and replicating reported bugs, providing clear steps, and supporting information for effective troubleshooting.
- Strong analytical and problem-solving skills to identify root causes, prioritize bug fixes, and implement appropriate solutions.
- Knowledge of bug tracking workflows, including bug assignment, status tracking, and resolution validation, ensuring that all issues are addressed and closed.
- Familiarity with bug tracking integrations with version control systems, allowing seamless linkage between bug reports and code changes.

Artificial Intelligence and Machine Learning:

- Knowledge of AI and ML concepts, algorithms, and frameworks like TensorFlow, PyTorch and scikit-learn, with experience in implementing and training models.

Data Analysis and Visualization

- Skills in data analysis using tools like Python, R, and SQL, and experience in data visualization using libraries like Matplotlib, Numpy, Pandas and py.test.

PROJECTS

01/09/2019 – 31/08/2023

Utilizing Data-Balancing Techniques to Improve AI-Based Prediction of Software Bugs and Code Smells How to predict software bug and code smells using artificial intelligence and data balancing techniques based on software metrics.

CONFERENCES AND SEMINARS

17/11/2022 – University of Miskolc

Data balancing methods in ML-based software bug prediction [Doctoral Students' Forum 2022](#): Miskolc, November 17, 2022 : Sectional Publication of the Faculty of Mechanical Engineering and Informatics. Miskolc, Hungary : Miskolc University Academic and International Vice Chancellor's Secretariat (2023) pp. 59-67.

18/11/2021 – University of Miskolc

Overview of modern software bug prediction approaches [Doctoral students' forum 2021 - Sectional publication of the Faculty of Mechanical Engineering and Informatics](#). University of Miskolc, Hungary : University of Miskolc, Faculty of Mechanical Engineering and Informatics (2022) 111 p. pp. 55-61., 7 p.m.

21/11/2019 – University of Miskolc

Mining Software Repository: An Overview [Doctoral Students' Forum : Miskolc, November 21, 2019 : Sectional Publication of the Faculty of Mechanical Engineering and Informatics](#). Miskolc, Hungary : Miskolc University Academic and International Vice Chancellor's Secretariat (2020), 188 p.

PUBLICATIONS

[Software defect prediction using a bidirectional LSTM network combined with oversampling techniques](#)

– 2023

Khleel, N. A. A., & Nehéz, K. (2023). Software defect prediction using a bidirectional LSTM network combined with oversampling techniques. *Cluster Computing*, 1-24.

[Detection of code smells using machine learning techniques combined with data-balancing methods](#)

– 2023

Khleel, N., & Nehéz, K. (2023). Detection of code smells using machine learning techniques combined with data-balancing methods. *International Journal of Advances in Intelligent Informatics*, 9(3), 402-417.
doi:<https://doi.org/10.26555/ijain.v9i3.981>

[Improving the accuracy of recurrent neural networks models in predicting software bug based on undersampling methods](#)

– 2023

Khleel, Nasraldeen Alnor Adam, and Károly Nehéz. "Improving the accuracy of recurrent neural networks models in predicting software bug based on undersampling methods." *Indonesian Journal of Electrical Engineering and Computer Science*.478-493 :(2023) 32.1

[A novel approach for software defect prediction using CNN and GRU based on SMOTE Tomek method](#)

– 2023

Khleel, N.A.A., Nehéz, K. A novel approach for software defect prediction using CNN and GRU based on SMOTE Tomek method. *J Intell Inf Syst* (2023).

[Modeling of groundwater quality index by using artificial intelligence algorithms in northern Khartoum State, Sudan](#)

– 2022

Mohammed, M.A.A., Khleel, N.A.A., Szabó, N.P. *et al.* Modeling of groundwater quality index by using artificial intelligence algorithms in northern Khartoum State, Sudan. *Model. Earth Syst. Environ.* (2022).
<https://doi.org/10.1007/s40808-022-01638-6>

[A new approach to software defect prediction based on convolutional neural network and bidirectional long short-term memory](#)

– 2022

Nehéz, K. and Khleel, N.A.A., "A new approach to software defect prediction based on convolutional neural network and bidirectional long short-term memory", *Production Systems and Information Engineering*, Vol. 10, No. 3, pp. 1-15, 2022.

[Deep convolutional neural network model for bad code smells detection based on oversampling method](#)

– 2022

N.A.A.Khleel and K.Nehéz, "Deep convolutional neural network model for bad code smells detection based on oversampling method", *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 26, No. 3, pp. 1725-1735, 2022.

[Comprehensive Study on Machine Learning Techniques for Software Bug Prediction](#) – 2021

N. A. A. Khleel and K. Nehéz, "Comprehensive Study on Machine Learning Techniques for Software Bug Prediction", *International Journal of Advanced Computer Science and Applications*, Vol. 12, No. 8, pp. 726-735, 2021.

[Comparison of version control system tools](#) – 2020

Nehéz, K. and Khleel, N.A.A., "Comparison of version control system tools", *Multidisciplinary Sciences*, Vol. 10, No. 3, pp. 61-69, 2020.

[Tools, processes and factors influencing of code review](#) – 2020

Nehéz, K. and Khleel, N.A.A., "Tools, processes and factors influencing of code review ", *Multidisciplinary Sciences*, Vol. 10, No. 3, pp. 277-284, 2020.

[Merging problems in modern version control systems](#) – 2020

Nehéz, K. and Khleel, N.A.A., "Merging problems in modern version control systems ", *Multidisciplinary Sciences*, Vol.10, No. 3, pp. 365-376, 2020.

