

# FAKHRELDEEN SAEED

Associate Professor and Data Scientist,

Al-Neelain University, Sudan.

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## CONTACT

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## SKILLS

DATA SCIENCE

DATA VISUALIZATION

HADOOP&MAPREDUCE

SPARK

PYTHON

MACHINE LEARNING

## REVIEWER

IEEE TRANSACTIONS  
ON KNOWLEDGE AND  
DATA ENGINEERING  
(TKDE)

## LANGUAGES

ARABIC

ENGLISH

## FOUNDER of

DATA SCIENCE SUDAN  
(DSS)

## 🕒 EXPERIENCE

**AL-NEELAIN UNIVERSITY** December 2019 - Now  
**LEADING RESEARCH GROUP**

Leading of Data Science Research Group on Al-Neelain University, SUDAN.

**AL-NEELAIN UNIVERSITY** July 2018 - Now  
**ASSOCIATE PROFESSOR**

Faculty of Computer Science and Information Technology, CS department, Al-Neelain University, SUDAN.

**UNIVERSITY OF JEDDAH** March 2014 - July 2018  
**ASSOCIATE PROFESSOR**

Faculty of Computer and Information Technology, IT department, University of Jeddah, KSA.

**KING ABDULAZIZ UNIVERSITY** October 2011 - March 2014  
**ASSISTANT PROFESSOR**

Faculty of Sciences and Arts, IT department, King Abdul-Aziz University, KSA.

**AL-NEELAIN UNIVERSITY** April 2011 - October 2011  
**DEPUTY OF DEAN**

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

**AL-NEELAIN UNIVERSITY** January 2009 - April 2011  
**HEAD OF SOFTWARE ENGINEERING DEPARTMENT**

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

**AL-NEELAIN UNIVERSITY** April 2008 - January 2009  
**HEAD OF INFORMATION SYSTEM DEPARTMENT**

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

**AL-NEELAIN UNIVERSITY** November 2005 - October 2007  
**COORDINATOR OF GRADUATE STUDIES**

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

## COURSES

PMP

Advanced Linux

Web Security

### AL-NEELAIN UNIVERSITY ASSISTANT PROFESSOR

April 2008 - SEPTEMBER 2011

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

### AL-NEELAIN UNIVERSITY LECTURER

November 2005 - April 2008

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

## EDUCATION

### Ph.D. (APRIL 2008)

AL-NEELAIN UNIVERSITY, SUDAN

Computer Science (Performance Evaluation of Computer System)

### M.Sc. (NOVEMBER 2005)

AL-NEELAIN UNIVERSITY, SUDAN

Computer Science

### B.Sc. HONS (SEPTEMBER 2002)

AL-NEELAIN UNIVERSITY, SUDAN

Computer Science



## TEACHING EXPERIENCE

- Network and Network Programming with java
- Server-Side Programming (php and ASP.net)
- Multimedia Technology
- Multimedia Network Technology
- Object Oriented Analysis and Design
- Performance Evaluation of Computer systems
- Operating System and Data Structure
- Network Administration and Management
- Machine Learning
- Computer Graphics (OpenGL and java)
- Object oriented programming(java and Python)
- Data Mining and Data Science
- Database Management System
- Cloud Computing and Big Data

## TRAINING AND CERTIFICATIONS

- Big Data Workshop on Covid-19 Lockdown Analysis (Edureka, Issued date Aug 2020, ID R8JKEBBU.
- AWS Fundamental course in the AWS Machine Learning Scholarship, Amazon Web Services (AWS), Issued date Jun 2020.
- AWS Technical Essentials September 2020
- Data Science Africa workshop on Ethiopia 2019.
- PMP Course in KSA 2015.
- Web Security Malaysia 2009.

## **BIG DATA AND DATA SCIENCE SKILLS**

### **PROGRAM LANGUAGE**

- C++, C#, Java, Python and Scala.
- Web programming (JavaScript, PHP, Django and flask)

### **BIG DATE**

Hadoop, Hive, MongoDB, Sqoop, Spark.

### **DATA SCIENCE**

- Various machine learning techniques with Python and Spark.
- Mathematic, Statistic, Algorithm.
- Visualization (Matplotlib, Seaborn and D3.js)

### **CLOUD COMPUTING**

Developing workfolw and model on AWS, Azure and google Cloud.

## **CURRICULUMS DEVELOPED**

### **BACHELOR OF SOFTWARE ENGINEERING (B.Sc.),**

AL-NEELAIN UNIVERSITY

Faculty of computer science and information technology, Al-Neelain University, SUDAN.

### **MASTER OF SCIENCE IN INFORMATION TECHNOLOGY,**

GARDEN CITY UNIVERSITY

Garden City University, IT Department, SUDAN.

### **MASTER OF SCIENCE IN SOFTWARE ENGINEERING,**

AL-NEELAIN UNIVERSITY

Faculty of Science and Technology, School of Mathematical Science and Statistic Al-Neelain University, SUDAN.

### **MASTER OF SCIENCE IN CLOUD COMPUTING,**

UNIVERSITY OF JEDDAH

Faculty of Computer and Information Technology, IT department, KSA.

## **PUBLICATION**

### **Journals**

- *Using Electronic Health Records and Machine Learning to Predict Diabetes Complications, Informatica-An International Journal of Computing and Informatics, 2021. (Accepted)*

- *Comparison Study and Develop an Algorithm to Choose Suitable Approach for Mobile Application Development, GCNU Journal, ISSN:1858-6228, 2020.*
- *Current Directions and Future Research Priorities of Customer Data Analysis, Journal of Information Systems and Informatics, Vol. 2, No. 2, September 2020 , DOI: <https://doi.org/10.33557/journalisi.v2i2.75>*
- *Towards transparent machine learning models using feature sensitivity algorithm, JURNAL INFORMATIKA , Vol 14, Issue 1,2020. DOI: <http://dx.doi.org/10.26555/jifo.v14i1.a16983>*
- *A Novel Model for Securing Access of Cloud-Based E-Learning Systems, IJEAST, Vol. 4, Issue 7, November 2019.*
- *New Hierarchical Model for Multiclass Imbalanced Classification, Journal of Theoretical & Applied Information Technology, 95(16), Aug 2017.*
- *Using WASSEC to Analysis and Evaluate Open Source Web Application Security Scanners, International Journal of Computer Science and Network (IJCSN), ISSN: 2277-5420, Volume 3, Issue 2, April 2014(Impact factor 0.274).*
- *Using WASSEC to Evaluate Commercial Web Application Security Scanners, International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Volume-4, Issue-1, Mach 2014(Impact factor 1.0).*
- *Assessment of Open Source Web Application Security Scanners, journal of theoretical and applied information technology (E-ISSN 1817-195 / ISSN 1992-8645), Vol 61, Issue 2, Mach 2014.*
- *JPEG versus GIF Images in forms of LSB Steganography, International Journal of Computer Science and Network(IJCSN), ISSN: 2277-5420, Volume 2, Issue 6, December 2013(Impact factor 0.274).*
- *Comparing and Evaluating Open Source E-learning Platforms, International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Volume-3, Issue-3, July 2013(Impact Factor 1.1).*

### Conferences

- Comparison between Techniques of Imbalanced Multi-class Dataset, In Proceedings of 7th International Conference of Computer Science and Information Technology (SCCSIT'7), Khartoum, Sudan, 7-9 Jan 2020.
- Computer studies in Sudan Universities, Juba University IT Conference, Sudan, 2009.
- Email security with open source, workshop on Sudan Email, National Information Center, Sudan, 2009.
- Web Site Standard, National Information Center (Section Policies and Standards), Sudan, 2010.

## Under review

- Comparison Study and Develop an Algorithm to Choose Suitable Approach for Mobile Application Development
- An Ensemble Machine Learning Model to Investigate the Screen System for the Identification of Potential COVID-19 Patients in Sudan
- Machine learning Model for Predicting Diabetes Complications Using Electronic Health Records
- Estimation of Coronavirus (Covid-19) Infections in Khartoum State (Sudan)
- Building an Intelligent System for Early Detection of breast cancer (ISEDDBC) in Sudanese rural areas.

## Books

- Evaluation Performance of E-Learning Platform Based on Open Source, ISBN-13: 978-3-330-80410-4, Noor Publishing, 22.12.2016.

## Supervision

	Finished	Unfinished	Total
Ph.D.	3	14	17
Master	10	3	13

## Topics of Supervision

- Evaluation Performance of Software
- Web Security
- Mobile Healthcare
- Data Science Healthcare
- BI in Higher Education
- Data Science in Higher Education



## REFERENCES

### PROF. IZZELDIN MOHAMED OSMAN

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Prof. Izzeldin Office, Sudan University of Science and Technology, Khartoum, Sudan P. O. Box 3297

### PROF. ALTYP ALTAHER, KING ABDULAZIZ UNIVERSITY, KSA

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### DR. TAYB SAMANI, AL-NEENAIL UNIVERSITY, SUDAN.

Dean of CSIT.

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