Dr. GHULAM IRTAZA



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linkedin: https://www.linkedin.com/in/irtazasheikh/

EDUCATION

(PhD) Doctor of Philosophy in Computer Science (2026) — *Grade: CGPA 3.90*

Dissertation: "Analytical Understanding Of Sleep Behavior from Healthcare Instrument using AI"

(MSCS) Master of Science in Computer Science (2015) — *Grade: CGPA 3.40*

Air University, Multan, Pakistan

(MCS) Master of Computer Sciences (2010) (2 Year) — *Grade: CGPA 3.43*

Bahauddin Zakariya University, Multan, Pakistan

WORK EXPERIENCE

Lecturer in Computer Science *(November 2016 – Present)*

University of Education, Lahore, Pakistan

Systems Analyst *(August 2019 – November 2016)*

TechLogic

ADMINISTRATIVE DUTIES

- Incharge Student Affairs (ISA) UE, Multan Campus.
- Coordinator Student Counseling Center , UE, Multan Campus.
- Secretary Discipline Committee , UE, Multan Campus.
- Secretary Anti-Drug & Tobacco Sub-committee , UE, Multan Campus.
- Secretary Canteen Monitoring Committee, UE, Multan Campus
- Secretary Admission Campaign Committee, UE, Multan Campus

RESEARCH AND PUBLICATIONS

Artificial Intelligence Based Personalized Nutrition Systems for Optimizing Dietary Recommendations and Health Outcomes R Iqbal, M Asim, MT Sultan, K Bukht, G Irtaza, MIA Khan Pakistan Journal of Medical & Cardiological Review 5 (2), 5551-5566	2026
A systematic review of secure federated learning based on blockchain and Multi-Party computation MNM Bhutta, G Irtaza, A Mehmood, R Hamood, I Makhdoom, M Elhadef, ...	2026

Peer-to-Peer Networking and Applications 19 (1), 7	
INVESTIGATION OF THE ONTOLOGIES IN THE DOMAIN OF THE INTERNET OF THINGS F Qaswar, MA Raza, G Irtaza Spectrum of Engineering Sciences 3 (12), 1516-1533	2025
A COMPREHENSIVE STUDY OF K-MEANS AND K-NEAREST NEIGHBORS ALGORITHMS IN BIG DATA CONTEXT K Mahmood, G Irtaza, MA Raza Spectrum of Engineering Sciences 3 (12), 1408-1424	2025
SE-Res-U-Net: an improved U-Net architecture for efficient sleep state detection and classification G Irtaza, NS Naz, MU Saeed, AS Shflot, A Unar Scientific Reports 15 (1), 39196	2025
DEVELOPMENT OF A DYNAMIC ONTOLOGY-BASED FRAMEWORK FOR ENHANCING THE INTELLIGENCE AND AUTONOMY OF ROBOTIC SYSTEMS A Arif, M Waseem, SZQ Haider, MA Khalid, G Irtaza Spectrum of Engineering Sciences, 219-231	2025
A COMPREHENSIVE EVALUATION METRIC FRAMEWORK FOR MACHINE LEARNING-BASED CRYPTO-RANSOMWARE DETECTION S Jabbar, B Raza, M Fuzail, N Aslam, G Irtaza Kashf Journal of Multidisciplinary Research 2 (06), 202-222	2025
Real-time Satellite Image Classification Using Convolutional Neural Networks for Earth Observation and Video Feed Analysis G Irtaza, S Latif, RM Nadeem, N Hussain, HM Ijaz Kashf Journal of Multidisciplinary Research 2 (03), 204-216	2025
IMPROVING COVID-19 INFORMATION RETRIEVAL BY INTEGRATING SEMANTICS AND CLUSTERING K Mahmood, MA Raza, G Irtaza Kashf Journal of Multidisciplinary Research 2 (01), 277-292	2025

USE IMAGE PROCESSING MODEL TO FRUIT QUALITY DETECTION MH Soomro, G Irtaza, G Ali, S Batool Kashf Journal of Multidisciplinary Research 1 (11), 85-106	2024
Brain Tumour detection of MRI Images using Machine Vision Techniques Muhammad Shan, Muhammad Hanif Soomro, Hafiz Muhammad Ijaz, Ghulam Irtaza ... Kashf Journal of Multidisciplinary Research 1 (11)	2024
Applied Weighted Parameters Approach for Noise Removal in Audio Processing Environment A Mumtaz, S Ali, G Irtaza, MH Raza, SUR Khan, MM Aslam Journal of Computing & Biomedical Informatics	2024
A safe and reliable method for data exchange in the cloud N Kanwal, G Irtaza, S Joghee, K Ateeq, A Khadim 2023 International Conference on Business Analytics for Technology and …	2023
Electronic Image Processing for Writer-independent Offline Signature Recognition based upon Fourier Descriptors G Irtaza, H Raza 2023 International Conference on Business Analytics for Technology and …	2023
Intelligent system to diagnosis of pneumonia in children using support vector machine M Tariq, MA Al-Khasawneh, G Irtaza, M Fiaz, W Safi, R Asif 2023 International Conference on Business Analytics for Technology and …	2023
Disease identification using deep learning in agriculture: A case study of cotton plant J Hassan, KR Malik, G Irtaza, A Ghulam, A Ahmad VFAST Transactions on Software Engineering 10 (4), 104-115	2022
Using data mining technique to measure the Impact of COVID-19: 1st wave on the stock market of Top Fifteen affected countries Z Akbar, K Razzaq, F Murtaza, F Hassan, G Irtaza, T Safdar Research Journal Of Computer Science And Information Technology 5 (2), 13-19	2021

Effect of Hyperparameter Optimization technique to Extract the Nuclei from the Cell F Hassan, Z Akbar, G Irtaza, F Murtaza, J Hassan, M Wardah 2020 14th International Conference on Open Source Systems and Technologies …	2020
Big Data analytics with Machine Learning for iot sensed data K Arun, M Ali, G Irtaza, T Anwar Pal Arch's, Journal of Archaeology of Egypt/Egyptology 17 (7), 5293-5301	2020
Urbanization change analysis based on SVM and RF machine learning algorithms F Hassan, T Safdar, G Irtaza, AU Khan, SMH Kazmi, F Murtaza International Journal of Advanced Computer Science and Applications 11 (5)	2020

PROFESSIONAL COMPETENCIES

- **Academic Leadership and Administration:** Managing student affairs, academic coordination, institutional administration, student advising, and stakeholder engagement.
- **Teaching and Learning:** Higher education teaching, curriculum development, Outcome-Based Education (OBE), outcome-based assessment, curriculum design, and student-centered learning.
- **Computer Science and Programming:** Strong knowledge of Python, programming fundamentals, data structures and algorithms, problem-solving, and software engineering.
- **Artificial Intelligence and Machine Learning:** Applied AI, machine learning, deep learning, neural networks, Explainable AI (XAI), and healthcare data analysis.
- **Research and Academic Writing:** Scientific research, research methodology, data analysis, academic publications, technical writing, and interdisciplinary research.
- **Software and Web Development:** Web application development, systems analysis and design, database management, software development, and IT solutions.
- **Digital Marketing and E-Commerce:** Meta Ads management, digital advertising, social media marketing, e-commerce strategy, online business development, and conversion optimization.
- **Student Development and Career Counseling:** Career counseling, student mentoring, advising, leadership skills development, extracurricular activities, and student engagement.
- **Project and Event Management:** Project planning, team coordination, event organization, institutional collaboration, and effective execution of academic and administrative initiatives.
- **Communication and Professional Skills:** Public speaking, delivering presentations, report writing, problem-solving, critical thinking, teamwork, and decision-making.

COURSES TAUGHT

- Programming
- Data Structures and Algorithms
- Theory of Automata
- Operating Systems
- Assembly Language
- Computer Networks
- Information Security, System and Network Administration
- Computer Architecture

LANGUAGE SKILLS

- **English:** Professional proficiency
- **Urdu:** Native / Bilingual
- **Punjabi:** Native / Bilingual

REFERENCES

Dr. Ahsan Raza
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