



Dr. Tanzeela Kousar

Ph.D. (Computer Science) | Lecturer, Institute of CS & IT

University-level teaching, research, student supervision, quality enhancement, and academic administration.

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Location: Vehari, Pakistan

PROFESSIONAL PROFILE

Dr. Tanzeela Kousar is a Ph.D. (Computer Science) from the Department of Computing, University of Technology Malaysia(UTM), Malaysia. She holds an MS in Computer Science from the National University of Computer and Emerging Sciences (FAST), Pakistan. She is currently serving as a faculty member at the Institute of Computer Science and Information Technology, The Women University Multan, Pakistan. She has 15 years of university-level teaching experience, with academic contributions in teaching, student supervision, laboratory instruction, internship coordination, hostel administration, departmental activities, and quality enhancement work related to QEC/HEC processes. Her research interests include image processing, biomedical imaging, computer vision, cloud computing, context awareness, networking, and IoT security.

Current Role	Doctoral Study	Teaching Experience	Research Metrics
Lecturer / Faculty Member The Women University Multan	Ph.D. (CS) UTM, 2021-2026	15 years University level	330 citations h-index: 4 i10-index: 4

EDUCATION

Ph.D. (Computer Science) | University of Technology Malaysia (2021 - 2026)

MS (Computer Science) | National University of Computer and Emerging Sciences, Karachi, Pakistan (2011)

- Thesis / Research Survey: Comparative analysis of workflow languages emphasizing the need of context awareness.
- Supervisor: Dr. Zubair Sheikh.
- CGPA: 3.10 / 4.00.

BS (Computer Science) | Bahauddin Zakariya University, Multan, Pakistan (2004 - 2008)

- Final Year Project: Online Sale System.
- CGPA: 3.12 / 4.00.

ACADEMIC APPOINTMENTS & PROFESSIONAL EXPERIENCE

Lecturer | Institute of CS & IT, The Women University Multan, Pakistan

November 2015 - Present

- Teach and supervise undergraduate and graduate students in Computer Science and Information Technology.
- Contribute to QEC and HEC Pakistan-related academic quality enhancement processes.
- Coordinate internships and support graduate student placement and professional development activities.
- Serve in additional academic and administrative roles including Girls Hostel Warden, Internship Committee Convener, and Departmental Games Convener.

Lecturer | COMSATS Institute of Information Technology, Vehari Campus, Pakistan

August 2011 - November 2015

- Taught undergraduate and postgraduate Computer Science courses.
- Managed student and faculty hostel operations and supported student welfare responsibilities.
- Arranged internships for graduate students and coordinated departmental games and student activities.
- Served as Girls Hostel Warden, Internship Committee Convener, and Departmental Games Convener.

Research Assistant / Lab Engineer | National University of Computer and Emerging Sciences, Karachi, Pakistan

April 2010 - May 2011

- Supported university web development activities.
- Conducted undergraduate laboratory sessions and assisted students with practical coursework.

TEACHING PORTFOLIO

Network Security	Programming Fundamentals	Computer Communication and Networks
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Software Quality Assurance	Internet Architecture and Protocol	Compiler Construction
Software Engineering	Computer Architecture	Object Oriented Programming

RESEARCH INTERESTS

Image Processing	Biomedical Imaging	Computer Vision	Cloud Computing	Context Awareness	IoT Security
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ACADEMIC SERVICE & ADMINISTRATION

- Quality enhancement and academic compliance support for QEC/HEC-related processes.
- Student supervision and laboratory instruction in Computer Science and Information Technology.
- Internship coordination and support for graduate student professional development.
- Girls Hostel Warden, Internship Committee Convener, and Departmental Games Convener.

CONFERENCES & WORKSHOPS

- 10th International Conference on Frontiers of Information Technology, organized by COMSATS, Abbottabad.
- 11th International Conference on Frontiers of Information Technology, organized by COMSATS, Abbottabad.
- 2nd National Conference on Advancements in Sciences & Research, COMSATS Institute of Science and Technology, Vehari, Pakistan, March 2014.
- 1st International Conference on Emerging Trends & Challenges in Artificial Intelligence (ICETCAI 2024) 9th – 10th January, 2024 organized by Institute of Computer Science and Information Technology, The Women University Multan, Pakistan 2
- 2nd International conference on Artificial intelligence computing & data sciences(AICD-25) Institute of Computer Science and Information Technology, The Women University Multan, Pakistan
- 3 Organizer
- TechXpo-2026 Final year project exhibition and poster competition 9 June 2026 organized by Institute of CS & IT The women University, Multan
- TechXpo-2025 Final year project exhibition and poster competition 1 July 2025 organized by Institute of CS & IT The women University, Multan
- TechXpo-2024 Final year project exhibition and poster competition 11 July 2024 organized by Institute of CS & IT The women University, Multan`

PUBLICATIONS

Research publications are listed in reverse chronological order based on the information provided in the uploaded CV.

1. Jameel, A., Bajwa, I. S., Sarwar, N., Kousar, T., & Iqbal, S. (2026). A hybrid advanced narrow AI framework for scalable apparel fit prediction using modular DNN and interpretable attention-driven TabNet. International Journal of Computational Intelligence Systems. Advance online publication. DOI: 10.1007/s44196-026-01438-1.
2. Jameel, A., & Kousar, T. (2025). Digital technological advancement in online fashion tailoring: A comparative analysis of Pakistan and China fashion metaverse. Statistics Computing and Interdisciplinary Research, 7(2), 319-358. DOI: 10.52700/scir.v7i2.206.
3. Kousar, T., Rahim, M. S. M., Alsuhaibani, M., Iqbal, S., & Raza, M. A. (2025). Integrating convolutional and transformer networks for precise diagnosis of watershed and hemorrhagic stroke. Scientific Reports, 15, Article 41675. DOI: 10.1038/s41598-025-25539-7.
4. Kousar, T., Rahim, M. S. M., Iqbal, S., Yousaf, F., & Sanaullah, M. (2025). Applications of deep learning algorithms in ischemic stroke detection, segmentation, and classification. Artificial Intelligence Review, 58, Article 149. DOI: 10.1007/s10462-025-11119-8.
5. Khan, I. A., Keshk, M., Hussain, Y., Pi, D., Li, B., Kousar, T., & Ali, B. S. (2025). A context-aware zero trust-based hybrid approach to IoT-based self-driving vehicles security. Ad Hoc Networks, 167, Article 103694. DOI: 10.1016/j.adhoc.2024.103694.
6. Saleem, N., Ishaq, A., Riaz, M., Kousar, T., Jameel, A., Bilal, M., Aslam, S., Ain, Q. ul, Narejo, K. R., Anwar, H., & Ullah, S. (2024). Deep learning framework for optimizing early detection of measles using transfer learning. Indus Journal of Bioscience Research, 2(2), 985-998. DOI: 10.70749/ijbr.v2i02.308.
7. Ahmad, M., Sanaullah, M., & Kousar, T. (2024). A framework for the authorship identification in research papers. Machines and Algorithms, 3(3).
8. Khalil, A., Awan, M. J., Yasin, A., Kousar, T., Rahman, A., & Youssef, M. S. (2024). Hybrid time series model for advanced predictive analysis in COVID-19 vaccination. Electronics, 13(13), Article 2468. DOI: 10.3390/electronics13132468.
9. Ahmad, A., Yousaf, F., & Kousar, T. (2024). Optical character recognition for Nastaleeq printed Urdu text using histogram of oriented gradient features. Machines and Algorithms, 3(1), 28-42. DOI: 10.66108/mna.v3i1.67.
10. Mahesar, F., Ishaq, A., Riaz, M., Bilal, M., Kousar, T., & Jameel, A. (2024). AutoGluon-based sales forecasting: A real-time predictive analytics solution for business intelligence. Journal of Data Analysis and Information Processing, 12(4), 510-522. DOI: 10.4236/jdaip.2024.124027.
11. Khan, I. A., Razzak, I., Pi, D., Khan, N., Hussain, Y., Li, B., & Kousar, T. (2024). Fed-Inforce-Fusion: A federated reinforcement-based fusion model for security and privacy protection of IoMT networks against cyber-attacks. Information Fusion, 101, Article 102002. DOI: 10.1016/j.inffus.2023.102002.
12. Yousaf, F., Iqbal, S., Fatima, N., Kousar, T., & Rahim, M. S. M. (2023). Multi-class disease detection using deep learning and human brain medical imaging. Biomedical Signal Processing and Control, 85, Article 104875. DOI: 10.1016/j.bspc.2023.104875.

13. Awais, M., Iqbal, S., Rasool, Q., & Kousar, T. (2022). Optical character recognition of Urdu text using histogram of oriented gradient features [Preprint]. Research Square. DOI: 10.21203/rs.3.rs-2117151/v1.
14. Jameel, A., Bajwa, I. S., Ponum, M., Kousar, T., Afzaal, R., Ali, S., Jameel, R., & Jameel, S. (2022). Prognosis of hepatitis disease classification using non-linear compound algorithms [Preprint].