

Date of birth: 04/03/1997

Email: sawerakanwal233@gmail.com

A motivated Lecturer and Researcher in Computer Science, specializing in Machine Learning and AI-driven applications, with experience in academic teaching, research, and curriculum development. Demonstrated ability to design and deliver HEC-aligned syllabi, conduct independent and collaborative research, and prepare manuscripts for Q-level (Q1/Q2) journals. Actively engaged in academic service and international research dissemination, with strong skills in data analysis, model development, and scholarly communication. Known for professionalism, adaptability, and a commitment to continuous learning and academic excellence.

EDUCATION

- 1. **Doctor of Philosophy (PhD) in Computer Science**
University of Central Punjab (UCP), Pakistan. Expected Completion: 2028
- 2. **MS.CS (2022-2024) From UMT Lahore**
CGPA 3.3
- 3. **M.Ed. (2020-2023) From AIOU Islamabad**
CGPA 3.5
- 4. **MSC.CS (2018-2020) From GCU Faisalabad**
CGPA 3.2
- 5. **BSC.CS (2016-2018) From Govt College Bhakkar**
1st Division

WORK EXPERIENCE

- **Lecturer. University of South Asia Lahore**
01/10/2025 to present.
- **Lecturer. GC University Lahore Campus, Pakistan.**
03/03/2025- 01/10/2025
- **Visiting Lecture. COMSATS University Lahore**
08/05/2024-2025.

THESIS SUPERVISION/ CO-SUPERVISION

Student's Name	Research Topic
Zubda Khanam	Deep convolution neural network-based prediction of lysine malonylation sites.
Hina Farooq	Prediction of extracellular matrix proteins using cascade random forest.
Zoha Kashaf	Analysis and prediction of phosphorylation sites using deep learning.
Sameera Kanwal	An effective antimicrobial peptide prediction-based deep learning feature with a support vector machine.

My Digital Skills

- ❖ AI and Machine Learning model development for research applications
- ❖ Data analysis, feature engineering, and model performance evaluation
- ❖ Python-based research computing and statistical analysis using SPSS
- ❖ Academic writing and manuscript preparation (IEEE and Q-level journals)
- ❖ Research profile management and scholarly visibility (Google Scholar)

Q1 Q2 SSCI, ESCI PUBLICATIONS

1. Traffic road congestion system using the Internet of Vehicles (IoV): A systematic literature review. SLR published: <https://vfast.org/journals/index.php/VTSE/article/view/1806>
2. A blockchain-assisted secure federated learning architecture for intrusion detection in internet of things networks
Published: <https://www.nature.com/articles/s41598-026-53053-x>
3. A Framework to make the citrus supply chain transparent and reliable using Blockchain.
Published: <https://vfast.org/journals/index.php/VTCS/article/view/1954>
4. Recent Advances in Machine Learning Models for Antiviral Peptide Prediction
Published: <https://vfast.org/journals/index.php/VTCS/article/view/2047>
5. Remote Sensing and Artificial Intelligence for River Water Quality Forecasting: A Review
Published: <https://jcbi.org/index.php/Main/article/view/1011>
6. Enhancing Price Prediction Accuracy through LSTM and Comparative Deep Learning Models.
Published: <https://link.springer.com/article/10.1007/s11540-024-09823-z>
7. MACHINE LEARNING FOR CHRONIC KIDNEY DISEASE: ADVANCES, CHALLENGES, AND FUTURE RESEARCH DIRECTIONS
Published: <https://vfast.org/journals/index.php/VTSE/article/view/1806>
8. The introduction of Artificial Intelligence in Medical Education: A Narrative Review of Implementation Practice, Evaluation, and Methodological Barriers
9. Published: <https://www.thesesjournal.com/index.php/1/article/view/1559>
10. Networking handbook [Books]
 - April 2025 [IEEE Network](#) 14(2):7-8
 - DOI: [10.1109/MNET.2000.826363](https://doi.org/10.1109/MNET.2000.826363)
 - Source: [IEEE Xplore](#)
11. PREDICTION OF N4-ACETYLCYTIDINE IN mRNA USING A DEEP FOREST MODEL WITH HYBRID FEATURES
<https://thesesjournal.com/index.php/1/article/view/1809>
12. Submitted to IEEE Journal: A systematic literature review on Bitcoin cryptocurrency security & privacy issues.
13. Novel approach to detect verticillium wilt using transfer learning.
14. Submitted to Journal: Chronic Kidney Disease Using Machine Learning.
15. Submitted to IEEE: RECENT ADVANCES IN MACHINE LEARNING MODELS FOR ANTIVIRAL PEPTIDE PREDICTION.
16. Submitted to MDPI: Prediction of N4-acetylcysteine in mRNA using a deep forest model with hybrid features.

Submitted To the Conferences

17. An in-depth analysis of the research on privacy and security issues with the cryptocurrency Bitcoin
18. An exploration of the synthesis and morphology of composite material: bismuth-doped go/perovskites.

Academic & Administrative Responsibilities

- Collaborate with academic and research teams on teaching and research activities
- Prepare and update HEC-compliant syllabi annually
- Contribute to course planning, documentation, and academic coordination
- Participate in curriculum development and academic quality processes

Academic Service

Faculty Ambassador – ICIT 2026 (IEEE Sponsored Conference)
International Conference on IT and Industrial Technologies (ICIT 2026)
FAST-NUCES, Chiniot-Faisalabad Campus | March–April 2026

Thesis Topic:

A Blockchain-Based Framework to Make the Citrus Crop Supply Chain Transparent and Reliable in Agriculture.

Supervisor: Dr Shoaib Farooq (HoD), UMT

