

SAMRA NAWAZISH

[Homepage](#) | [Google Scholar](#) | [LinkedIn](#) | [Github](#)

Email: samra5677@gmail.com

EDUCATION

Master of Science, Software Engineering <i>University of Engineering and Technology (UET), Taxila, Pakistan</i>	Oct 2018 – Dec 2022 CGPA 3.33/4.00
Bachelor of Science, Software Engineering <i>Department of Software Engineering, University of Engineering & Technology (UET), Taxila, Pakistan</i>	Oct 2014 – July 2018 CGPA 3.50/4.00

• Supervisor: [Prof. Ali Javed](#)
• Thesis: "Deep Learning Model for the detection and classification of Diabetic Retinopathy"
• Major courses: Algorithm Design & Analysis, Advanced Software Technologies, Deep Learning

• Supervisor: [Prof. Syed Muhammad Anwar](#)
• Final Year Project: "Context-Aware Smart Car App for Personal Assistance"
• Major courses: Artificial Intelligence, Web Development, Software Testing, Software Quality

RESEARCH INTERESTS

- medical image analysis and digital health using deep learning and machine learning
- integration of Large Language Models (LLMs) and Vision-Language Models (VLMs) with computer vision for clinical decision support
- AI-driven healthcare through deep learning, image processing, computer vision techniques

PUBLICATIONS

Deep Learning Model for the detection and classification of Diabetic Retinopathy (Paper) <i>Samra Nawazish, Ali Javed, Tahira Nazir</i>	(ICTAPP-2023)
Studying the Invasion of Drones in Indigenous areas using Machine Learning Techniques (Paper) <i>Samra Nawazish, Amin Ullah, Jawad Hassan</i>	(UCP Journal- 2024)
Performance Evaluation of MANET Routing Protocols Based on Size and Speed Parameters (Paper) <i>Amin Ullah Samra Nawazish, Jawad Hassan</i>	(UCP Journal-2024)
Image Fusion using Wavelet Transformation and XGboost Algorithm (Paper) <i>Faten S. Alamri, Dr Shahid Naseem, Tariq Mahmood, Samra Nawazish, Tanzila Saba</i>	(CMC-2024)
Towards sustainable smart cities: Applications, Challenges and Future Directions (Paper) <i>Amin Ullah, Saddam Hussain, Samra Nawazish, Irfan Ullah, Zafar Ali</i>	(IJDSA-2025)
Enhancing Dental Caries Identification with Deep Learning: A study of Convolutional Networks and Transfer Learning Approaches (Paper) <i>Fayqa Manan, Muhammad Adeel, Samra Nawazish, Amin Ullah, Amjad Rehman</i>	(ssrn 4945802-2024)

PROFESSIONAL EXPERIENCE

Research Associate <i>Intelligent Machines Lab, Information Technology University (ITU), Lahore, Pakistan</i> Advisor: Dr. Waqas Sultani	April 2025 – to date
Research topics: Source-Free Domain Adaptation for Image Segmentation, Large Language Models, Vision Language Models <ul style="list-style-type: none">Working on real-time Microscopic Images and Video Enhancement and Stitching toolTrained Segformer on Hemato dataset to accurately generate segmentation masks for Blood Cancer dataset LeukemiaUsing Transformers, developed a language translator that translates given text in English to UrduImplemented DRA-Net for semantic cell segmentation on the BCCD dataset in Whole Slide ImagesApplied ResNet-50 to classify flowers across seven categories	
Teaching Assistant Instructor: Dr. Mohsen Ali Postgraduate Course Computer Vision CV525, ITU, Lahore, Pakistan	Aug 2025 – to date

Graduate Research Assistant
Department of Software Engineering, University of Engg. and Tech., Taxila, Pakistan

Research topic: Deep Neural Networks

Aug 2021 – Jan 2023

- Explored Deep Learning models and transfer learning algorithms for the detection and classification of Diabetic Retinopathy

Lecturer

Swedish College of Engineering & Technology, Wah Cantt, Pakistan

July 2021 – Dec 2024

- Taught Courses: Programming Fundamentals, Object Oriented Programming, Introduction to Computers, Software Testing, Artificial Intelligence

Junior Software Developer

Heavy Industries Taxila (HIT), Taxila Cantt, Pakistan

June 2019 – June 2021

- I design, build, and maintain front-end, back-end, and database systems to deliver seamless, user-friendly applications

SUMMER SCHOOLS / INTERNSHIPS / WORKSHOPS / CONFERENCES

- Attended RISE-MICCAI Summer School (virtual) from July 14–18, 2025
- Attended RISE-MICCAI Summer School-Local Activity (virtual) from July 14-17, 2025 organized by MBZUAI
- Attended 2024 IEEE / OES China Ocean Acoustic Conference on May 29-31, 2024 in Harbin, China
- Attended China-Pakistan Marine Information Workshop and Training Course organized at Harbin Engineering University, Harbin, China from June 01-14, 2024
- Attended International conference on computing technologies, tools, and applications ICTAPP-23 on May 09-11, 2023, in Peshawar, Pakistan

HONOURS & AWARDS

- Fully funded Masters scholarship holder from UET Taxila, Pakistan
- Undergraduate merit-based scholarship holder from Federal Government Employee Quota
- Awarded Prime Minister Laptop Scheme Gift 2016
- Academic board topper excellence award in ICS (FBISE Islamabad) 2014
- Academic board topper excellence award in SSC (FBISE Islamabad) 2012

ACADEMIC SERVICES

- Served as a reviewer for MICCAI 2025
- Volunteer reviewer of Information fusion (in the area of medical imaging and IoMT)
- Designed Course Learning Outcomes and Program Learning Outcomes at Swedish College

IELTS & GRE

- IELTS: Listening: 6.0 Reading: 6.5 Writing: 6.0 Speaking: 6.5 Overall: 6.5
- Graduate Record Examination (GRE): Quantitative Reasoning 154 Verbal Reasoning 137, Total: 291

LANGUAGES

English, Urdu, Punjabi

OTHER INTERESTS

- Exploring culture, Gardening, Cooking, Watching Tech videos

REFERENCES

- Dr. Ali Javed, Associate Professor, University of Engineering & Technology, Taxila Pakistan
Email:ali.javed@uettaxila.edu.pk Contact : +92334 5174516
- Dr. Amin Ullah, Associate Professor, Bahria University Lahore Campus, Lahore Pakistan
Email: aminullah.bulc@bahria.edu.pk Contact : +92333 9557815
- Dr. Tariq Mahmood, Post-doctorate Research Fellow, AIDA Lab, Prince Sultan University, Saudi Arabia
Email:tmahmood@psu.edu.sa Contact : +966532042334