

AYMIN JAVED

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● ABOUT ME

As a dedicated research associate with a strong academic foundation, I hold an MS in Computer Science from COMSATS University Islamabad. With a keen interest in Artificial Intelligence, Deep Learning, and Machine Learning, I have made significant contributions to the field. My work focuses on advanced data analytics, predictive modeling, and explainable AI, reflecting my expertise and passion for leveraging technology to address complex challenges. Currently, I am working as a Research Associate in the ComSens Lab at the National Yunlin University of Science and Technology, Taiwan, where I continue to advance cutting-edge research in the rapidly evolving domains of Artificial Intelligence and Machine Learning. My research demonstrates a commitment to innovation, scientific rigor, and excellence in developing intelligent systems that contribute meaningful solutions to real-world problems.

● WORK EXPERIENCE

 **COMSENS LAB, NATIONAL YUNLIN UNIVERSITY OF SCIENCE AND TECHNOLOGY – DOULIU, TAIWAN**
RESEARCH ASSOCIATE – 15/02/2023 – CURRENT

- Conducted lab sessions for the Programming for AI course, delivering hands-on guidance under the supervision of an experienced mentor.
- Delivered lectures on Deep Learning to undergraduate students, focusing on foundational concepts and practical applications.
- Provided mentorship to junior researchers, assisting with research design, data analysis, and project execution.
- Specialized in data preprocessing techniques, including feature engineering, normalization, and handling imbalanced datasets.
- Led the training and optimization of deep learning and machine learning models, ensuring robust performance and generalization across datasets.
- Integrated eXplainable AI (XAI) approaches to interpret and validate machine learning model predictions.
- Actively contributed to fostering a collaborative research environment by offering technical support and guidance on advanced AI methodologies.

● EDUCATION AND TRAINING

13/09/2021 – 10/01/2024 Islamabad, Pakistan
MASTERS OF COMPUTER SCIENCE COMSATS University Islamabad, Islamabad Campus, Pakistan

13/09/2017 – 09/08/2021 Wah Cantt, Pakistan
BACHELORS OF COMPUTER SCIENCE COMSATS University Islamabad, Wah Campus, Pakistan

● SKILLS

Problem Identification | Analytical Thinking | Data Analytics | Feature Engineering | Algorithm Design | Research Methodology | Problem-Solving | Scientific Writing | Critical Reasoning | Python

● PUBLICATIONS

2025
[**An AI based Framework using Aquila-Optimized Capsule Network for Radar Object Detection \(Accepted\)**](#)

Journal Name: Complex & Intelligent Systems | **Publisher:** Elsevier

2025
[**Developing a novel framework using optimized active stacking and explainable AI for heart disease prediction**](#)

Journal Name: Computer Methods and Programs in Biomedicine | **Publisher:** Elsevier

2025
[A 3-Tier Information Fused Framework Featuring Explainable Deep Active Optimized CRNet for Accurate Heart Disease Prediction \(Accepted\)](#)

Journal Name: Journal of Translational Medicine | Publisher: Springer

2024
[Applying Advanced Data Analytics on Pregnancy Complications to Predict Miscarriage With eXplainable AI](#)

Journal Name: IEEE Access | Volume, Issue and Pages: Vol. 12, p176845 - 176862 | Publisher: IEEE

2024
[DB-Net and DVR-Net: Optimized New Deep Learning Models for Efficient Cardiovascular Disease Prediction](#)

Journal Name: Applied Sciences | Volume, Issue and Pages: Vol 14 Issue 22, p10516 | Publisher: MDPI

2025
[Towards Accurate Intrusion Detection in IoT: A Deep Learning Approach with Optimization and Active Sample Selection \(Accepted\)](#)

Journal Name: IEEE GLOBECOM | Publisher: IEEE

2025
[OASIS: Optimized Active Sampling for Intrusion Detection in IoT Systems \(Accepted\)](#)

Journal Name: IEEE WINCOM | Publisher: IEEE

2025
[An Intelligent Intrusion Detection Framework for IoT Using Active Learning and Metaheuristic Optimization \(Accepted\)](#)

Journal Name: IEEE WINCOM | Publisher: IEEE

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user