

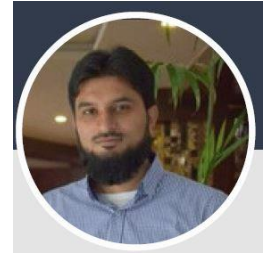
ATIF IFTIKHAR

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OBJECTIVE

With a wealth of teaching expertise exceeding 5 years, including a prominent presence in university-level instruction, I offer a diverse skill set. I'm adept at tailoring instructional methods to suit various learning styles, ensuring both academic excellence and personal growth for students. My adaptable approach positions me as an invaluable asset in any educational context.

EDUCATION

Master in Science Data-Science-(2025)

*Shaheed Zulfikar Ali Bhutto Institute of
Science and Technology, Islamabad,
Pakistan*

CGPA: **3.84**

Master in Science Management Sciences-(2013)

*PMAS- Arid Agriculture University
Rawalpindi, Pakistan*

CGPA: **3.86**

Major courses:

- Machine Learning
- Deep Learning
- Cloud Computing
- Tools and Techniques for Data Science

FINAL YEAR THESIS

Kidney Tumor Detection and Localization using Deep Learning

- Designed and developed an end-to-end computer-aided diagnosis framework for automated kidney abnormality classification and tumor localization from CT images.
- Implemented KATT-Net, a dual-head deep learning architecture based on EfficientNet-B3, enabling simultaneous multi-class kidney abnormality classification and binary tumor detection.
- Integrated Channel Attention (CAM) and Spatial Attention (SAM) mechanisms to enhance discriminative feature extraction and improve sensitivity to minority tumor classes.
- Embedded training-aware Grad-CAM regularization to guide model attention toward anatomically relevant regions, improving interpretability and clinical trust.
- Developed a novel FAU-Net segmentation model by extending U-Net with attention-based feature fusion for precise kidney and tumor boundary delineation.
- Performed extensive experimentation using stratified 10-fold cross-validation, achieving high and stable performance across accuracy, F1-score, AUC, Dice, and IoU metrics.
- Conducted systematic ablation studies to analyze the contribution of attention modules, dual-head learning, and explainability components.
- Evaluated the framework on public benchmark datasets (KiTS19, Kaggle Kidney CT) and compared results with state-of-the-art methods.
- Utilized Python, PyTorch/TensorFlow, OpenCV, NumPy, and Matplotlib for model development,

RESEARCH INTERESTS

- Deep Learning and Applied Machine Learning
- Data Science for Healthcare and Medical Imaging
- Data Analytics and Predictive Modeling

PROFESSIONAL EXPERIENCE

➤ LECTURER (Sep 2025 – Present)

*Department of Robotics and Artificial Intelligence
Shaheed Zulfikar Ali Bhutto Institute of
Science and Technology, Islamabad, Pakistan*

- Deliver Lecturer undergraduate courses in Artificial Intelligence, Data Science, and Machine Learning, focusing on both theoretical foundations and practical applications.
- Supervise final year projects in areas including deep learning, medical imaging, and applied data science.

RESEARCH PUBLICATIONS

1. Atif Iftikhar, Farhana Batool, Asma Javaid, & Dr. Alamgir Safi. (2025). BIG DATA-DRIVEN CYBERSECURITY: INTELLIGENT MODELS FOR EARLY THREAT IDENTIFICATION AND MITIGATION. *Spectrum of Engineering Sciences*, 3(12), 900–911. Retrieved from <https://thesesjournal.com/index.php/1/article/view/1744>
2. Sheikh Abdul Wahab, Atif Iftikhar, Talha Ahmed, Hasnain Tahir, Wahab Ali. (2025). ENHANCING MULTIMODAL FAKE NEWS DETECTION: OPTIMIZED HIERARCHICAL DEEP LEARNING VIA ADAPTIVE EVOLUTIONARY ALGORITHMS. In *Spectrum of Engineering Sciences*. Zenodo. <https://doi.org/10.5281/zenodo.17785399>

CERTIFICATIONS AND ACHIEVEMENTS

- Conducting a successful seminar on ‘Supply Chain Management’
- Winning defense of the final project on ‘Impact of Macro-Economic Variables on Poverty’.
- Completed Android application Charity Support the Poor using Java Language
- Student Management System Android Application using Java Language
- Age Prediction Using Facial Images
- Heart Attack Prediction Using Machine Learning (3rd Prize Winner)
- Predicting Plant Invasive Species Using Machine Learning (1st Prize Winner)
- Google Soft Skills Program – Google (2024)
- Python for Everyone – University of Michigan (Coursera, 2023)
- Google Data Analytics – Coursera (2023)
- Introduction to ChatGPT and Generative AI – 365-DataScience(2023)
- Data Analytics and Business Intelligence – DigiSkills (2023)
- Machine Learning, AI & Data Science – (2023)
- The Complete Dart Learning Guide – Udemy (2022)

SOFTWARE SKILLS

- Python
- MS Office (Excel, Word, PowerPoint)
- Power BI
- Java
- Flutter

PROFESSIONAL SKILLS

- Excellent oral and written communication skills to articulate research proposals, methodologies, and findings clearly and concisely.
- Team Management and team cooperation skills with proficient work ethics.
- Problem-solving skills especially complex engineering problems.
- Creativity and novelty in research and teamwork.
- Flexible and Adjustable according to the time frame and working environment.
- Consistent hard worker and eager to learn more through various online and onsite platforms.
- Profound in management and organizing events.

LANGUAGE SKILLS

- English (Proficient)
- Urdu (National Language)

PERSONAL STATEMENT

PROFILE Highly motivated Data Scientist with an MS in Data Science and MS in Management Sciences. Strong analytical and problem-solving skills with expertise in Python, TensorFlow, and SQL. Proven ability to build and optimize machine learning models, particularly in medical imaging and predictive analytics. A proven track record of winning competitions in AI and machine learning. Passionate about leveraging data-driven insights to solve real-world problems.

REFERENCES

Dr. Muhammad Imran
Associate Professor,
Department of Robotics and Artificial Intelligence
Shaheed Zulfikar Ali Bhutto Institute of
Science and Technology, Islamabad, Pakistan