



Saad Irfan Khan

✉ saadirfan06@gmail.com

🏠 House#13, Street#19, Jinnah Garden,
Phase 1, Islamabad

📅 Date of birth 12/07/1994

📍 Islamabad

☎ 03360575736

👤 Married

ABOUT ME

Experienced developer, content creator, lab instructor, researcher, and lecturer. Consistent, devoted towards the assigned task, and capable of producing noteworthy results in a limited amount of time.

INTERESTS

Teaching

Research

RESEARCH PUBLICATIONS

1 - A Novel Hybrid Deep Learning Model for Human Activity Recognition Based on Transitional Activities - 2021

Section: Internet of Things

Journal: Sensors

Publisher: MDPI

<https://doi.org/10.3390/s21248227>

Status: Published

2 - Heartbeat Classification and Arrhythmia Detection Using a Multi-Model Deep Learning Technique - 2022

Section: E-Health System Based on Sensors and Artificial Intelligence - Special Issue

Journal: Sensors

Publisher: MDPI

<https://doi.org/10.3390/s22155606>

Status: Published

3 - Remote Health Monitoring Systems for Elderly People: A Survey - 2023

Section: Physical Sensors

Journal: Sensors

Publisher: MDPI

<https://doi.org/10.3390/s23167095>

Status: Published

4 - Transition-aware human activity recognition using an ensemble deep learning framework - 2024

Section: Recent Trends and Future Advances in Personalised/Adaptive Ubiquitous Learning - Special Issue

Journal: Computers in Human Behavior

Publisher: Elsevier

<https://doi.org/10.1016/j.chb.2024.108435>

Status: Published

EDUCATION

MSCS

Capital University of Science and Technology - Islamabad

- From January 2019 to December 2021

Completed with 3.23 CGPA and a published research work in W-category Journal.

BSCS

Abasyn University Islamabad Campus - Islamabad - From November 2013 to June 2017

Completed with specialization (FYP) in Augmented Reality.

WORK EXPERIENCE

Lecturer / Program Manager

SZABIST University - Islamabad - Since August 2023

Working as a Lecturer and Program Manager (5-8 Semesters) in the Department of Robotics & Artificial Intelligence.

The responsibilities include offering courses, managing faculty, delivering lectures, providing student counseling, and managing departmental tasks such as creating and updating course outlines, preparing content for accreditation visits, managing course folders, ensuring content delivery aligns with Outcome-Based Education (OBE) standards, designing and updating curricula, and organizing curricular, co-curricular, and extracurricular events, etc.

Lecturer

National Skills University Islamabad - Islamabad - From September 2022 to July 2023

Worked as a lecturer (PPS-08) in the Department of Information Engineering Technology. My work profile included (but was not limited to): teaching distinct computing subject, academic advisor of CS undergrad students, secretary for Industrial Advisory Board, member of Board of Studies, focal person for PM laptop initiative, member of OBE curriculum review committee, member of discipline committee, incharge of lab, member of curriculum design committee, coordinator of executive ChatGPT center, etc.

Research Assistant

Capital University of Science and Technology - Islamabad

- From March 2022 to September 2022

Worked as a Research Assistant / Associate under the supervision of Head of Software Engineering Department, CUST.

Visiting Lecturer CS

Hamdard University Islamabad Campus - Islamabad - From March 2022 to July 2022

Worked as a visiting lecturer for the following subjects:

- 1 - Programming for Artificial Intelligence
- 2 - Advance Computer Programming
- 3 - Mobile Application Development

Lab Instructor (A) + Developer (B)

Dept. of Computer Science, Capital University of Science and Technology - Islamabad

- From October 2021 to March 2022

(A) - Worked as a lab instructor for the course "Introduction to Programming".

(B) - Also worked as a developer (Machine Learning) for the ERASMUS+ project, titled "SAFE RH".

3D Modeler

HomeVism - Rawalpindi - From December 2020 to August 2021

Worked as a 3D modeler for HomeVism.

RESEARCH AREAS

- 1 - Human Activity Recognition
- 2 - ECG classification and Arrhythmia Detection
- 3 - Remote Health Monitoring

CERTIFICATIONS AND TRAININGS

- Cloud Data Handling**
IBM - GIKI, Swabi - August 2018
- Blended Learning in Higher Education**
Microsoft / HEC - Online
- November 2022
- Introduction to Cybersecurity**
CISCO - Online
- From December 2022 to January 2023
- Hybrid Learning**
Microsoft / HEC - Online - March 2023
- Staying Connected with Remote Learning**
Microsoft / HEC - Online - March 2023
- Converse, Collaborate, and Build Community in Teams**
Microsoft / HEC - Online - March 2023
- Maximizing IEEE Xplore resources for your study and research**
IEEE - Online - April 2024
- Publishing in Open Access with IEEE Journals**
IEEE - Online - June 2024
- Integrating IEEE eLearning Courses into your teaching**
IEEE - Online - June 2024
- Improving discoverability of your research: Tools & services from IEEE**
IEEE - Online - June 2024
- Promoting your research articles: Tools & services**
IEEE - Online - August 2024

DEEP LEARNING AND OTHER PROJECTS

- Dynamic human activity recognition from sensor data
- Arrhythmia detection using MIT-BIH Arrhythmia dataset
- Accelerometer and Gyroscope data extraction from Wear OS
- Video Chat module integration in MIS
- Pharmacy Management System, etc.

WORK EXPERIENCE (CONTINUED...)

- 3D Modeler + Developer**
The Catalyst, Ghulam Ishak Khan Institute (GIKI) - Swabi
- From July 2018 to November 2018
Worked as a team lead and developer for the team "Optikals" incubated at the "The Shed", now "The Catalyst".
Responsibilities included the development of 3D models and co-leading the team.

SKILLS

- MATLAB**
Moderate skill in MATLAB programming.
- C++**
Excellent C++ programming skills with teaching experience.
- Python**
Proficient in Python programming with teaching experience.
- Teaching**
Proficient in the use of general technology and GenAI for teaching.
- Research**
Excellent research skills with in-depth knowledge of the state-of-the-art research tools and techniques.
- Latex**
Have a smooth grip on LaTeX.

COMPUTER SKILLS

- Canva**
Skilled in the utilization of Canva for moderate level graphic designing.
- Visual Studio**
Excellent C++ programming skills using visual studio.
- XAMPP**
Moderate skills in database creation using MySQL and Apache.
- Blender**
Good skills for creating 3D models.
- MS Office**
Proficient in the utilization of MS Office tools.
- PyCharm**
Proficient in the utilization of PyCharm for machine learning programming.

SUBJECTS TAUGHT

Programming Fundamentals, Data Structures and Algorithms, Machine Learning, Object-Oriented Programming, Artificial Intelligence, Programming for AI, Data Mining, Deep Learning, Discrete Mathematics, Knowledge Representation & Reasoning, Design & Analysis of Algorithms etc.