d Muhammad **A**t

Flat No. H-202, Saima Pride, Gulshan-e-Igbal, Block 10, Karachi, Sindh, Pakistan

□ (+92) 335-2146167 | **S** syed.muhammad.atif@gmail.com

Education

PAF-KIET (Karachi Institute of Economics & Technology)

Karachi, Pakistan

Ph.D. IN COMPUTER SCIENCE

CGPA 3 92

• Under HEC Indigenous PhD Fellowship program.

UIT (Usman Institute of Technology/Hamdard University)

Karachi, Pakistan

M.S. IN COMPUTER NETWORKS & COMMUNICATION

CGPA 3.89

· Silver medalist in his batch.

SSUET (Sir Syed University of Engineering and Technology)

Karachi, Pakistan

B.S. IN COMPUTER ENGINEERING

CGPA 2.99

Skills

Programming Python, MATLAB, C/C++, JAVA, PHP, LaTeX

Web Bootstrap, Codelgniter, Javascript, JQuery, HTML5, CSS

Languages English, Urdu, Sindhi

Experience _____

Department of Computer Science & Information Technology, Sir Syed University of Engineering & Technology University

Karachi, Pakistan

ASSISTANT PROFESSOR

Nov 2024 - To Date

- · Conducting assigned courses of undergraduate programs of Computer Science and Information Technology.
- Supervising Final Year Projects of Software Engineering Program.
- · Participating in research funded projects.
- Conducting academic researches maturing into impact factor publications.
- · Other administrative duties.

Department of Computer Science & Software Engineering, Ziauddin University

Karachi, Pakistan Jan. 2023 - Oct. 2024.

ASSISTANT PROFESSOR

• Conducting assigned courses of undergraduate programs of Software Engineering and Computer Science.

- Supervising Final Year Projects of Software Engineering Program.
- Participating in research funded projects.
- Conducting academic researches maturing into impact factor publications.
- · Other administrative duties.

NCBC, HEC, Pakistan under funded project "Hetro Cloud".

Karachi, Pakistan

Al Developer

Jan. 2021 - Dec. 2022.

• Develop a scalable face recognition software that deployed on Cloud.

Steps Ahead Pvt. Ltd. Karachi, Pakistan

WEB DEVELOPER May. 2019 - Oct. 2020

- Implemented an asset census system which is web based real time highly dynamic multi-purpose system integrated with an Android application that performs asset census. A web based reporting tool is also integrated with this web application to analysis census results from different business angles
- Implement a damage control and management web based system. It is web based application integrated with an Android application for business damage, monitoring and control.

Department of Electrical Engineering, PAF Karachi Institute of Economics & Technology.

Karachi, Pakistan

RESEARCH/TEACHING ASSISTANT Aug. 2018 - Apr. 2019

- Assist Head of Department of Electrical Engineering as teaching assistant.
- Check assignment and Quizzes.
- Appear as Guest speaker in MS/PhD class.
- Conduct research under "Network Tomography Lab" headed by Dr. Sameer Qazi (HOD Elec. Engg.). During the tenure, I was able to publish a IEEE conference and ISI impact factor research publications.

Department of Computing and Technology, Indus University.

Karachi, Pakistan

Feb. 2016 - Feb. 2018

- Conduct lectures, check assignment and mid-term/final papers.
- · Supervise Final Year Projects.

LECTURER

• Supervise ICT FYP funded final year project "Raspberry Pi3 based Wifi Router".

Sybex System. Karachi, Pakistan

Web Developer Sep. 2015 - Feb. 2016

- Work on cancer patient analysis system
- Work on a online shopping cart portal.

DTC System.

Karachi, Pakistan

Jul. 2014 - Mar. 2015

• Work on a Tokyo stock exchange market prediction system.

Honors & Awards _____

2016	Secure, Scholarship of HEC under Indigenous PhD. Fellowship Program	Islamabad,
		Pakistan
2016	First Place, Entry Test for PAF-KIET PhD student with 89%	PAF-KIET, Karachi,
		PAkistan
2011	Second Place (Silver medalist), MS Program, UIT	Karachi, Pakistan

Research Fundings

2021 22	Secure , NCBC Hetro Cloud, a \$100k research grant by NCBC, HEC, Pakistan.	isiairiabaa,
2021-22	Secure , Nebe Helio cloud, a \$100k research grant by Nebe, File, Fakistan.	Pakistan
2017 20	Cocure NEC Indigenous DhD. Followship Funding DINI-21E 122E0 2EC2 204	Islamabad,
2017-20	017-20 Secure , HEC Indigenous PhD. Fellowship Funding PIN:315-13358-2EG3-204	
2016-21	Part of , European Research Council Research Project COLORAMAP (ERC starting grant No:679515)	Mons, Belgium
2018	Secure , ICT FYP Funding for final year project titled "Raspberry Pi3 based Wifi Router"	Karachi, Pakistan

Publications (Last Five Years)

Accelerated SVD-based initialization for nonnegative matrix factorization

Computational and Applied

Mathematics

Islamahad

Flavia Esposito, Syed Muhammad Atif, and Nicolas Gillis

Multi-kernel fusion for RBF neural networks

Neural Processing Letters

Syed Muhammad Atif, Shujaat Khan, Imran Naseem, Roberto Togneri, Mohammed Bennamoun June. 2022

Structured Nonnegative Matrix Factorization for Traffic Flow Estimation of Large Cloud Network

Computer Networks

September. 2024

SYED MUHAMMAD ATIF, SAMEER QAZI, NICOLAS GILLIS AND IMRAN NASEEM Oct. 2021

Why Is Internet of Autonomous Vehicles Not As Plug And Play As We Think? Lessons To Be Learnt From Present Internet and Future Directions

IEEE Access

SAMEER QAZI, FARAH SABIR, BILAL A. KHAWAJA, SYED MUHAMMAD ATIF AND MUHAMMAD MUSTAQIM

Jul. 2020

SCRAS Server-Based Crosslayer Rate-Adaptive Video Streaming over 4G-LTE for UAV-Based Surveillance Applications

Muhammad Naveedi, Sameer Qazi, Syed Muhammad Atif2, Bilal A. Khawaja and Muhammad Mustaqim

MDPI Electronics

Aug. 2019

Improved SVD-based initialization for nonnegative matrix factorization using low-rank correction

SYED MUHAMMAD ATIF, SAMEER QAZI AND NICOLAS GILLIS

Pattern Recognition Letters

May. 2019

A Novel Compressed Sensing Technique for Traffic Matrix Estimation of Software Defined Cloud Networks

SAMEER QAZI, SYED MUHAMMAD ATIF AND MUHAMMAD BILAL KADRI

KSII TIIS

Oct. 2018

First Elephants then Mice: A Two-stage Robust Estimation Technique for Traffic Matrix in Large Cloud Networks in Presence of Over Dispersion

RASHIDA A MEMON, SYED MUHAMMAD ATIF AND SAMEER QAZI

TENCON 2018

Oct. 2018

Tri-Compress: A Cascaded Data Compression Framework for Smart Electricity Distribution Systems

SYED MUHAMMAD ATIF, ANEES AHMED, SAMEER QAZI

Tech Forces

Jul. 2018

Singular valued differential link count linear estimator for traffic matrix of large cloud computing networks

SYED MUHAMMAD ATIF AND SAMEER QAZI

IEEE INTELLECT 2017

Nov. 2017