

Objective

I aim to research and come up with possible solutions for active issues related to Computer Science, Human – Computer Interaction and Software Engineering. And utilize my knowledge, skills and potential to bring positives to the people and make this world a better place to live.

Research Interests

- Automated User Centered Designing for optimized Human Computer Interaction
- Data Driven Recommendation Systems
- Esoteric data security for distributed cloud storage based on genetic algorithm
- Software Engineering & Its application in Computer Science
- Artificial Intelligence in Software Engineering

Software and Languages

- Java - C++ - C - C# - Python
- Microsoft SQL
- Netbeans - Visual Studio – Eclipse
- MS Office - MS project - Rational Rose – StarUML

Conferences & Workshops

- IEEE INMIC 2017 – 20TH International Multi-topic Conference
- HEC NCEAC 2018 - workshop on Machine Learning
- 02 – Day National Data Science Workshop using PYTHON, University of Management & Technology
- Workshop on Web Application development using Laravel and Vue.js, UMT SST Student Welfare
- A Hands-On workshop on Basics of Programming, UMT SST Student Welfare

Education

2020 - present	PhD Engineering in Computer Science Sapienza University of Rome, Italy
2016 - 2018	MS Computer Science National University of Computer & Emerging Sciences- FAST, Lahore -- CGPA: 3.42 / 4.00
2011 - 2015	BS Software Engineering Punjab University College of Information Technology – PUCIT, Lahore -- CGPA: 3.02 / 4.00
2009 - 2011	F.Sc in Pre-Engineering Govt. College for Women, Gulberg, Lahore – 1 st Div
2007 – 2009	Matriculation Lahore Grammar School, LGS, Lahore -- 1 st Div

Work Experience

2019 – present	UNIVERSITY OF MANAGEMENT AND TECHNOLOGY <i>Lecturer</i> <ul style="list-style-type: none">• Teaching the course Human Computer Interaction• Teaching the course Software Project Management• Teaching the course Programming Fundamentals• Batch advisor for student intake fall 2019
2018 - 2019	NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES – FAST NUCES <i>Instructor</i> <ul style="list-style-type: none">• Worked as instructor for the course Object Oriented Analysis and Design Lab• Worked as instructor for the course Programming Fundamentals Lab• Worked as instructor for the course Computer Programming Lab• Worked as instructor for the course Introduction to Computing Lab
2015	SUPERIOR SOLUTIONS <ul style="list-style-type: none">• Worked as trainee engineer for Software Architect & Quality Assurance
2015	EMENAC INC. <ul style="list-style-type: none">• Worked as trainee engineer for Software Architect & Quality Assurance

Additional Activities

- University of Management and Technology - UMT
Organized three workshops for students' Welfare. (2019 – 2020)
- National University of Computer and Emerging Sciences – NUCES FAST
Served as member of dept. Recreational Committee (2018 – 2019)
- Punjab University College of Information Technology – PUCIT
- Member of Sports Society (2015)
- Govt. College for Women, Gulberg
Vice President, Science Society (2010 – 2011)
- Football – Winner (Gold Medal - 2015)
- Punjab Art Council Served as Director, Writer, Actor (2010 – 2012)
- Lahore Grammar School
Served as member of dramatics society (2006 – 2009)

References

Will be provided on request

Research Areas

Human Computer Interaction (HCI), Data Driven Recommendation Systems, Artificial Intelligence, Software Engineering, Programming, Data Security, Object Oriented Analysis & Design, Cloud Computing, Smart Environments.

Research Experience & Projects

As Advisor

As an advisor I have supervised multiple research and development final year projects at university level. Some of them are as following:

- **Consultants** – A degree program recommendation system based on student's psychology and aptitude. The system is highly interactive and also offers online consultations from domain expert professors.
- **Aclinix** – An automated platform that can predict most likely diseases a person might develop based on his current health conditions, symptoms and family health history. It recommends geographically near relevant specialists along with general precautions and prescription a person should follow initially.
- **Eventia** – A platform for automated event management where automated classifications and suggestions are made for the choice of event arrangements based on user's requirement. A highly interactive system.

As Student

I have worked upon the following research and development projects as a student.

- **MS Thesis** – A Genetic Algorithm based esoteric data security framework and algorithm designing for distributed cloud storage for accelerating data with induced optimization. (*Journal Publication in progress*).
- **Compressed Data Classification** – A research to classify compressed data (Artificial Neural Networks based classification) with maximum accuracy and present a comparative analysis of multiple compression strategies.
- **BS Final Year Project** – An automated code to flowchart and flowchart to code converter system for better learning and understanding of fundamentals of programming and logic building.