Curriculum vitae

PERSONAL INFORMATION	**Ansif Arooj**

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WORK EXPERIENCE

31/08/2009–Present

Lecturer in Computer Science
University of Education, Lahore (Pakistan)

- The primary responsibility is to prepare and deliver regular lectures for undergraduate and graduate students, allocated by the chairperson of the department.
- To serve as academic advisor to students; serve on university committees; engage in scholarly activities and creative endeavors which contribute to the academic mission of the university.
- To carry out research and produce publications, or other research outputs, in line with personal objectives.
- To engage with the broader scholarly and professional communities.
- To contribute to the development, planning, and implementation of a high-quality curriculum.
- To develop learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- To participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- To participate in the development, administration, and marking of exams and other assessments.
- To participate in the administration of the department's programmes of study and other activities as requested.
- To maintain own continuing professional development

Courses Taught in 2018-2019:

- Data Mining, Database Systems, Network Security, Object   Oriented Programming

04/03/2007–08/09/2009

Coordinator
United Bank Ltd, Regional Audit Office, Lahore (Pakistan)

- MIS Reporting regards Audit planning /HR /Finance other resources prepared on a monthly basis for decision-making.
- Troubleshooting & maintaining all IT-based resources.
- Maintenance of Office Accounts & reconciliation with CDB (Central Data Base) Accounts maintained with the Branch in Uni-Bank.
- Management and planning regarding LAN issues within the office. Ensure Routers, Switches, and Workstations are in working order and work in an effective, efficient and accurate manner.
- All kinds of queries regarding IT, Troubleshooting, CS, and Databases are entertained within the appropriate time.
- Preparation and submission of monthly returns/statements to all concerns (Audit Division /HR/Finance/ MIS Div.) within the target date for each report.
- All sorts of HR related Task.
- Administration responsibilities embodied maintaining budgeted expenditure within approved limits, maintenance of the attendance and leave records, traveling and daily allowances approval &

records, medical claims records etc.

26/02/2008–20/05/2009	**Visiting Lecturer in Computer Science**

Hailey College of Commerce, University of the Punjab, Lahore (Pakistan)

- I have successfully delivered and managed the courses: (BC – 513) ELECTRONIC COMMERCE [Fall 2008] [Spring 2008] and (BC-302) Computer Applications in Business. [Fall 2008] [Spring 2008]

26/02/2008–30/08/2009	**Visiting Lecturer in Computer Science**

Sheikh Zayad Islamic Centre, University of the Punjab, Lahore (Pakistan)

Successfully delivered the following courses for undergraduate students: Fundamentals of Computer Science, Database Management Systems, Programming Fundamentals, Visual Basic 6.0, Web Development, and Computer Science Research [Fall 2008] [Spring 2008][Fall 2009] [Spring 2009]

EDUCATION AND TRAINING

20/10/2012–22/11/2014	**Master of Science in Information Technology**	EQF level 7

University of Management and Technology, Lahore (Pakistan)

CGPA 3.69/4

20/10/2004–23/06/2006	**Master of Science in Information Technology**	EQF level 6

Punjab University College of Information Technology, Lahore (Pakistan)

CGPA 3.18/4

25/08/2002–26/08/2004	**Bachelor of Science**	EQF level 5

University of the Punjab, Lahore (Pakistan)

Grade B

PERSONAL SKILLS

Mother tongue(s)	Urdu

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C2	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user		Proficient user

Digital skills - Self-assessment grid

Ubuntu Linux User

ADDITIONAL INFORMATION

Publications

- **Ansif Arooj,** Muhammad Shoaib Farooq Tariq Umer Rafi Us Shan "Cognitive Internet of Vehicles and disaster management: A proposed architecture and future direction" *Transactions on Emerging Telecommunications Technologies,* Impact factor:1.61, p.e3625. Wiley Online Library.

- **A Arooj,** M Riaz, MN Akram "Evaluation of Predictive Data Mining Algorithms in Soil Data Classification for Optimized Crop Recommendation". *IEEE International Conference on Advancements in Computational Sciences (ICACS), (pp. 176-181) Held in Lahore Pakistan 19-21 February 2018. DOI: 10.1109/ICACS.2018.8333275. https://ieeexplore.ieee.org/document/8333275/

- M Riaz, **Ansif Aroo**j "Electronic Voting With Biometric Verification Offline and Hybrid EVMs Solution". *IEEE International Conference in Innovative Computing Technology (INTECH), (pp. 332-337) held in Dublin, Ireland. DOI:10.1109/INTECH.2016.7845009 http://ieeexplore.ieee.org/document/7845009/

- M Riaz, **A Arooj**, MT Hassan, JB Kim "Clustering Based Association Rule Mining On Online Stores for Optimized Cross Product Recommendation", IEEE International Conference in Control, Automation and Information Sciences (ICCAIS) (pp. 176-181) held in Gwangju Institute of Science & Technology (GIST), South Korea. DOI:10.1109/ICCAIS.2014.7020553 http://ieeexplore.ieee.org/document/7020553/

Conferences

- IEEE International Conference on Digital Information Management (ICDIM), Islamabad, Pakistan, September 10-12 2013 sponsored by IEEE Technology Management Council (TMC) and DLINE (computing full-text journals database.

- IEEE International Conference on Control, Automation and Information Sciences (ICCAIS), Gwangju, Korea, December 2-5 2014.

- IEEE Sixth International Conference on Innovative Computing Technology (INTECH 2016), September 19-21, 2016 in Islamabad Marriott Hotel, Islamabad, Pakistan.

Honours and awards

Young Researcher – Heidelberg Laureate Forum

The Scientific Committee of the Heidelberg Laureate Forum Foundation (HLFF) has selected as 'Young Researcher' by Heidelberg Laureate foundation for attending Heidelberg Laureate Forum, will be held at Heidelberg Germany from 23-30 September 2017. Only the 200 most qualified Young Researchers has given the opportunity to enrich and share the unique atmosphere of the annual Heidelberg Laureate Forum. (http://www.heidelberg-laureate-forum.org/)

Travel Grant Award – GIST South Korea

Travel Grant Award by IEEE, ICCAIS 2014 in collaboration to Gwangju Institute of Science and Technology (GIST), South Korea 2014. (https://www.gist.ac.kr/en/)

Presentations

Tutorial presentation on **"Information Retrieval"**, in 8th International Conference on Digital Information Management (ICDIM), Islamabad, Pakistan, September 10-12 2013 sponsored by IEEE Technology Management Council (TMC) and DLINE (computing full-text journals database

Projects

Inverted index Construction of text documents for optimizing Boolean queries.

This project is based on a static dataset of text documents from a text document to inverted index construction, we have followed every step for the pre-processing of data (Elimination of SGML tags), (Formulation of text tokens) and (Data cleaning with duplications and anomalies). Moreover, this search engine can be used, not only for the retrieval of data but can deal with the Boolean queries as well. During the extraction of results, this will include the Term Frequency (TF) and Inverse Document Frequency (IDF).

Architecture design for Offline Electronic voting with biometric verification

The objective of voting is to allow voters to exercise their right to express their choices regarding specific issues, pieces of legislation, citizen initiatives, constitutional amendments, recall and/or to choose their government and political representatives. Technology is being used more and more as a tool to assist voters to cast their votes. Our project consists of Software (NADRA Version, ECP Version, and Online Version) and EVMS Hardware for voter authentication and balloting.

Big Data analytics platform for processing the customer viewing preferences and social media comments using python & Weka

Attained 20% growth in revenue and customers over the last two years by analyzing business needs, collaborating with stakeholders and designing a new data warehouse. Then, successfully lead data extraction, warehousing and analytics initiatives that reduced operating costs and created customized programming options.

Big Data analysis & preparation of the predictive system for an online retail store for a better recommendation system

This project analyzed the advantage of using data mining techniques (Pre-processing, Data Reduction, Data Integration, Market Basket Analysis, Pattern identifications, Clustering) to promote online retail shopping (for grocery) platform both for the market and customers for the corporation. We categorized the real-world problem in the online domain and this was used to identify the relevant data for analysis collected. We used data mining software tools (Weka & Rapid Miner) for the analysis and visualization. Our analysis was for the originality of the problem domain and interestingness of the discovered knowledge in that domain.

References | **Dr. Muhammad Shoaib Farooq**

Associate Professor, Director Final Year Projects

School of Systems and Technology

Department of Computer Science

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Dr. Malik Tahir Hassan

Acting Chairperson Department of Software Engineering, Assistant Professor

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