

Dr. Hina Afreen

Assistant Professor (Computer Science)

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OBJECTIVE:

I seek a challenging and rewarding environment to leverage my research skills and ability to lead personnel in a direction that provides me with superior achievement.

EXPERIENCE:

- Currently working as Assistant Professor of Computer Science at The Islamia University of Bahawalpur, Bahawalnagar Campus Bahawalnagar to date.
- **6 years** as a Lecturer of Computer Science in the HED department (since 2016 to 14 March 2022).
- **4 years** of experience as a visiting lecturer at The Islamia University of Bahawalpur, Bahawalnagar Campus Bahawalnagar.
- **5 years** (2011-2015) experience as an IT teacher in the Punjab School Education department.
- **1 and half years** approximately (2009-2010) experience as IT Instructor in Fauji Foundation College BWN.

PUBLICATIONS

1. Hina Afreen, Ayesha Amir, Umar Farooq, [2024], "**An IoT-Assisted Patient Monitoring and Alert System**". Journal of Computing & Biomedical Informatics, 2024. <https://www.jcbi.org/index.php/Main/article/view/360>
2. Hina Afreen, Muhammad Kashif, Qaisar Shaheen, Yousef H Alfaifi, Muhammad Ayaz, [2023], "**IoT-based smart surveillance system for high-security areas**". Applied Sciences, 2023. 13(15): p. 8936.. <https://doi.org/10.3390/app13158936>
3. Umer Farooq, Dr. Muhammad Javed, Hina Afreen, [2023], "**Effects of Micro-Environmental Factors on Students' Learning in Classroom at College Level in Pakistan**". Journal of Development and Social Sciences, 2023. 4(2): p. 836-852. [https://doi.org/10.47205/jdss.2023\(4-II\)73](https://doi.org/10.47205/jdss.2023(4-II)73)
4. Muhammad Asghar, Imran Bajwa, Hina Afreen, [2022], "**A Genetic Algorithm-Based Support Vector Machine Approach for Intelligent Usability Assessment of m-Learning Applications**". Mobile Information Systems. VL - 2022. <http://doi.org/10.1155/2022/1609757>
5. Hina Afreen, Imran Sarwar Bajwa, [2021]. "**An IoT-based Real-time Intelligent Monitoring and Notification System of Cold Storage**". IEEE Access. 2021:20399671 pp: 38236 – 38253. <https://doi.org/10.1109/ACCESS.2021.3056672>

6. Hina Afreen, Umer Farooq [2020], "An Intelligent Approach for CRC Models Based Agile Software Requirement Engineering Using SBVR". In book: Intelligent Technologies and Applications. pp: 372-384. DOI:10.1007/978-981-15-5232-8_32. Isbn:978-981-15-5231-1.
7. Hina Afreen, Imran Sarwar Bajwa [2012], "A Framework for Automated Natural Language Based Software Modelling", In International Journal of Software Engineering and Its Application(IJSEiA), Apr 2012, pp: 15-22.
8. Hina Afreen, Imran Sarwar Bajwa [2011], "Generating UML Class Models from SBVR Software Requirements Specifications", 23rd Benelux Conference on Artificial Intelligence (BNAIC-2011), 2011, pp:23-32, Gent, Belgium.
9. Hina Afreen, Imran Sarwar Bajwa [2011], "SBVR2UML: A Challenging Transformation", In Proceedings of IEEE 9th International Conference on Frontiers of Information Technology (FIT-2011), Dec 2011, pp: 33-38, Islamabad, Pakistan.

EDUCATION:

Degree	Division/ Percentage	Session	Institute
Ph.D.(CS)	1 st [88%]	2018 - 2021	The Islamia University of Bahawalpur, Pakistan.
MS(CS)	1 st [85%]	(2009 – 2011)	The Islamia University of Bahawalpur, Pakistan.
MCS	1 st [75%]	(2003 - 2005)	The Islamia University of Bahawalpur, Pakistan.
B.Sc.	1 st [67%]	(2001-2003)	The Islamia University of Bahawalpur.
F.Sc.	1 st [69%]	(1999-2001)	Board Of Intermediate & Secondary Education Bahawalpur.
Matric	1 st [70%]	(1997-1999)	Board Of Intermediate & Secondary Education Bahawalpur.

TECHNICAL EXPERTISE:

- Artificial Intelligence, Machine Learning
- Internet of Things (IoT)
- OOP, JAVA, Data Science
- Natural Language Processing

- **SUPERVISE PHD STUDENTS :**

STUDENT NAME/YEAR	TOPIC
MEHWISH SHABBIR 2024	OLFACTORY STIMULATION AND MEMORY ENHANCEMENT: AN INVESTIGATION USING RECALL AND RECOGNITION MEMORY TESTS WITH
SAYYAM ZAHRA 2023	IOT-BASED SYSTEM FOR EARLY DETECTION OF PNEUMONIA
HINA SHAFIQUE 2023	IOT-BASED INTELLIGENT SYSTEM TO DETECT COMMODITY QUALITY

- **SUPERVISE MSCS STUDENTS :**

STUDENT NAME/YEAR	TOPIC
MUHAMMAD NADEEM IJAZ 2024	A REAL-TIME WALNUT QUALITY ASSESSMENT WITH AN IOT FRAMEWORK
HAFIZ MUHAMMAD ABBAS 2024	IOT-BASED MONITORING AND CONTROL SYSTEM OF DATE PALM WATER
UMYH HABIBA 2024	IOT-ML FUSION FOR EFFICIENT MUSCLE STRAIN DETECTION
SADIA BATOOL 2024	AN IOT-ENABLED SYSTEM FOR REAL-TIME QUALITY DETECTION OF B
AYESHA NAWAB 2024	UNDERGROUND WELLNESS WATCH: HOSPITAL BASEMENT IAQ SYSTEM
AZMAT ULLAH 2024	ENERGY-ASSISTIVE IOT SMART FOOTWEAR
MARRIAM JAVED 2024	AN INTELLIGENT IOT SYSTEM FOR SLEEP ENVIRONMENT PREDICTION
FARZANA MUSHTAQ 2024	IOT-DRIVEN ENVIRONMENTAL MONITORING IN PHARMACIES FOR MEDICAL SAFETY
RABIZA ABBAS 2024	IOT-BASED REAL-TIME HOSPITAL INDOOR AIR QUALITY MONITORING SYSTEM
FATIMA SAEED 2024	IOT-BASED CLASSROOM MICRO-ENVIRONMENT MONITORING SYSTEM TO IMPROVE LEARNING
RANA QAMAR UL ZAMAN 2024	HOSPITAL BED CAPACITY TRACKING SYSTEM USING IOT
ALI HUSSAIN 2023	AN INTELLIGENT IOT-BASED PRE-WARNING SYSTEM TO AVOID ACCIDENTS

MUHAMMAD KASHIF 2023	IOT-BASED SURVEILLANCE SYSTEM FOR HIGH-SECURITY AREAS
MUHAMMAD KHALID 2023	AN IOT-BASED FRUIT STATUS ASSESSING SYSTEM
MAJID MEHMOOD 2023	AN INTELLIGENT IOT-BASED THIRD EYE FOR BLIND PEOPLE
NAEEM IQBAL 2023	IOT-BASED INTELLIGENT DRIVER DROWSINESS DETECTION AND ALERT SYSTEM
FARHAN MALIK 2023	AN INTELLIGENT REMOTE MONITORING AND NOTIFICATION SYSTEM GARDEN
AYESHA AMIR 2023	AN IOT- ASSISTED PATIENT MONITORING AND ALERT SYSTEM

- **AWARDS AND HONORS**

Member of the Review Board in INTAP.

- **REFERENCES**

It will be provide on demand.