

Mohd Usman Khan

Assistant Professor,

Department of Computer Science & Engg., Integral University, Lucknow

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Web of Science ID : JDW-2111-2023

Passport Status : Ready

Professional Summary:

With over 13 years of teaching experience, I have devoted myself to shaping and nurturing the future of undergraduate and postgraduate students in CS/IT Engineering and Computer Applications. As an accomplished educator, I consistently demonstrate the ability to teach, motivate, and guide students, fostering a high level of interest and achievement in the field.

Additionally, I currently serve as an Assistant Professor in the Department of Computer Science and Engineering at Integral University, Lucknow, a position I have held since April 5th, 2011. Prior to this role, I gained valuable experience as a Network Engineer at HCL Infosystems Ltd., Noida (NCR), Sector-16, from September 2009 to April 2011.

Educational Qualifications:

PhD in CSE (Submitted)

Title: "An Affective Framework for Multimodal Data Analysis Using Machine Learning"

Status: Ph.D. Submitted in month of July-2024

University: Integral University, Lucknow.

Subjects Taught/ Subjects of Interest

- Operating System
 - Open Source Software Technologies
 - Software Engineering & SPQM
 - Computer Networks
- Computer Programming in 'C'
 - Mobile Computing
 - Data warehousing and Mining

Qualification	Description
M.Tech	CSE from Integral University, Lucknow in the year 2013.
B.Tech	CSE from Integral University, Lucknow in the year 2009 .
Diploma	CSE from Board of Technical Education, Lucknow in the year 2006 .
Intermediate	From W.N. National Inter collage (UP Board) in the year 2003.
High School	From Kendriya Vidyalaya (CBSE Board) in the year 2001.

Patent Granted/ Published

"Mohd Usman Khan et al. developed 'An Object Sorting System Based on IoT with Color Sensor', published under **case number 20 2022 107 270** in the Patent Gazette on **March 2, 2023**. This innovation was granted a **Utility Model Patent** by the **German Patent and Trademark Office in Germany**."

National/International Journals Published

- **Mohd Usman Khan**, Faiyaz Ahamad, "An Affective Framework for Multimodal Sentiment Analysis to Navigate Emotional Terrains" in *TELEMATIQUE* Volume 23, Issue 1, 2024, ISSN: 1856-4194, pages 70-83. Web of Science
- **Mohd Usman Khan**, Faiyaz Ahamad. (2024). A Comprehensive Multimodal Approach to Assessing Sentimental Intensity and Subjectivity using Unified MSE Model. *International Journal of Intelligent Systems and Applications in Engineering*, 12(21s), 575–583
- **Mohd Usman Khan**, Jameel, Ambareen, “Exploring the Synergy of Web Usage Data and Content Mining for Personalized Effectiveness”, *International Journal of Innovative Research in Computer Science & Technology (IJIRCST)*, Vol-12, Issue 4., July 2024, ISSN 2347 - 5552, July. 2024. doi:10.55524/ijrcst.2024.12.4.5.
- **Mohd Usman Khan**, Faiyaz Ahamad, “Multimodal Data Analysis and Machine Learning Techniques: A Comparison and Review” in *NEUROQUANTOLOGY* an international, interdisciplinary, open-access, peer-reviewed journal | DECEMBER 2022 | VOLUME 20 | ISSUE 22 | PAGE 4196-4208.
- **Mohd Usman Khan**. “Load Balancing In Distributed Network by Simulated Annealing Method” in *IJSRD-International Journal for Scientific Research & Development*, vol-03, issue-07, 2015 ISSN(online) 2321-0613.
- Farooqui, Faisal, and **Mohd Usman Khan**. "A Literature Review on Automatic Detection of Fake Profile" *International Journal of Engineering and Management Research*, 13.2 (2023): 196-200.
- Farooqui, Faisal, and **Mohd Usman Khan**. "Automatic Detection of Fake Profiles in Online Social Network Using Soft Computing." *International Journal of Engineering and Management Research*, 13 (2022).
- **Mohd Usman Khan**, Shadab Siddiqui, Shaheen Fatima, “Intruder Detection System in Mobile Adhoc Network using Fuzzy Logic” in *International Journal of Research in Information Technology (IJRIT)*, 2014, Volume 2, Issue 5, ISSN: 2001-5569.
- **Mohd Usman Khan**, Siddiqui, Shadab, P. M. Khan. "Fuzzy Logic Based Intruder Detection System in Mobile Adhoc Network." *BIJIT - BVICAM's International Journal of Information Technology*, 6, no. 2 (July-December 2014): 767 (Springer).
- **Mohd Usman Khan**, Dr. Mohd. Rizwan Beg, Mohd Zunnun Khan. “Improved Line Drawing Algorithm: An Approach and Proposal” in *International Journal of Advances in Computer Science and its Applications (IJCSIA)*, UACEE, ISBN: 978-981-07-1403-1.

National/International Conferences Published

- Fatima, Zainab, Ghulam Mohiuddin, and **Mohd Usman Khan**. *Recent Advances in Civil, Mechanical and Electrical Engineering*, ISBN: 978-81-19746-57-6. DOI: 10.5281/zenodo.10321773.
- **Mohd Usman Khan**. "Hadoop based EMH framework: A Big Data approach" in *International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*, 2021, Publisher IEEE, Publication date 2021/3/4, Pages 1068-1070 (Scopus).
- **Mohd Usman Khan**, Mohd Zunnun Khan, and Mohd Shoaib. "Detection of Malicious Node in MANET: issues and Challenges on Intrusion Detection" in *Proceedings of National Conference on Recent Trends in Parallel Computing (RTPC - 2014)*, November 1-2, 2014, Mangalayatan University, Aligarh, India, pp. 89-93.

- Ahmad, Fowad, and **Mohd. Usman Khan**. "Integrated GPS-GSM Navigation & Position Locator Robot" in *National Conference on Emerging Trends in Mechanical & Electrical Engineering (NCETMEE-12)* at Integral University, Lucknow.

Book Chapters Published

1. **Mohd Usman Khan**, Farhan, Muhammad, Nortoji A. Khujamshukurov, Zainab Fatima, Tufail Ahmad, Muhammad Zaid, Anton Kuzmin, , Mohammad Azeem, and Mohammad Azad Alam. "The Status of Smart Agriculture: A Method to Enhancing Management Practices." Edited by Faisal Talib and Muhammed Muaz, *Smart Systems: Methodological Approaches and Applications*, CRC Press, 2024, pp. 95-110. DOI: 10.1201/9781003495314.
2. **Mohd Usman Khan**, Fatima, Zainab, Muhammad Farhan, Ghulam Mohiuddin, Muhammad Zaid and Muhammed Muaz. "Methodological Approaches for Smart Agriculture and Its Applications." Edited by Faisal Talib and Muhammed Muaz, *Smart Systems: Methodological Approaches and Applications*, CRC Press, 2024, pp. 111-129. DOI: 10.1201/9781003495314.

Awards:

Received the **Innovation Award** for the creative concept design of the '**Autonomous Bot Assistant for Senior Citizens**' at Regional Science City, Lucknow, recognized by the **Ministry of Culture, Government of India**.

Memberships

- . Computer Society of India (CSI)
- . Member of **IEEE** Communications Society.
- . Life Member of **ISTE** (Indian Society for Technical Education).
- . International Association of Engineers (AIENG)

Dissertation / Training Supervision

Supervised a total of four Master of Technologies (M.Tech) students in Computer Science and Engineering for their dissertations, with one currently ongoing in the current session.

Academic Achievements

Conference/Workshop/Seminar/Guest Lecture/FDP/PDP/VAC Organized

1. Organized seminar on "**Emerging Trend on Artificial Intelligence & Autonomous Robotics**" in association with **Waayoo Technologies Pvt. Ltd** to encourage and motivates the student towards the scope of robotics and its real time application in various fields of science and technology , total 500+ student attended this seminar on 12th Oct-2012 in the Dept of CSE, Integral University, Lucknow.
2. Organized two days' workshop on "**Design of Economic Manual and PC Controlled Robots**" held on 22nd-23rd March-2013 in the Dept of CSE, Integral University, Lucknow
3. Organized workshop on "**Embedded System & Autonomous Robotics (ESAR)**" in association with **Vaskoe Technologies Pvt. Ltd, USA** held on oct-2012 to January-2013 in the Dept of CSE, Integral University, Lucknow
4. Organized a two day workshop on "**Aptitude & GD/PI for best career option**" in association with **TIME education Pvt Ltd, Hyderabad** to motivate & encourage the student to choose the best career

path and the importance of aptitude, reasoning in engineering and how it is important in fields of science and technology, there were 350 students attending this workshop on Oct-2013 in the Dept of CSE, Integral University, Lucknow.

5. **Organized Mock drill for TCS aspirants to prepare according to the industry need** and requirement to enhance the employability factor in the students of integral university, over 10 students get selected out of 40 who participated in Mock drill execute in the coordination of **TIME education Pvt. Ltd.**, Hyderabad and other industry experts. on Oct-2013, 2013 in the Dept of CSE, Integral University, Lucknow.
6. **Organized Three Day National Workshop on Arm Controlled Robotics** Department of ECE Integral University Lucknow held on February 11 to February 13 2015, in association with Microbotics Technologies Pvt Ltd New Delhi.
7. **Organized one Day Workshop on Aptitude & Choosing Best Career** Option in the Department of CSE integral university Lucknow held on February, 21 2015, Total 250 Students get registered 10 students get awarded as winners in association with **T.I.M.E. Education Pvt. Ltd.**
8. **Organized Online Programming Quiz** in the Department of CSE integral university Lucknow held on March, 26 2015, Total 180 Students participated and top 5 students were declared as winners.
9. Organized in **International Conference ACEIT-16** in the Dept of CSE Integral University Lucknow.
10. Organized in the second **International Conference ACEIT-18** in the Dept of CSE Integral University Lucknow.
11. Organized **“CREO: I Think, I-Believe” Business Design Contest** held on March 9-10, 2022 in the Dept of CSE Integral University Lucknow.
12. Organized **International Seminar on “Analytics and Data Learning: Case Studies and Best Practices”** Held on March 30, 2022 in the Dept of CSE Integral University Lucknow.
13. Organized **National Seminar on “Recent Trends in Industry and Scientific Progress”** Held on December 03, 2022 in the Dept of CSE Integral University Lucknow.

Orientation / Refresher / summer / winter school attended.

1. **Orientation Program** I participated in the "Orientation Program" organized by MHRD, Government of India, and hosted by UGC HRDC at Aligarh Muslim University (AMU), which took place over 28 days from May 24th to June 20th, 2016. This program was designed to provide a comprehensive introduction to various aspects of academic life and professional development.
2. **Special Summer School in Basic Sciences** I attended the "Special Summer School in Basic Sciences," organized by MHRD, Government of India, and hosted by UGC HRDC at Aligarh Muslim University (AMU), held from June 23rd to July 13th, 2018. The program aimed to enhance understanding and knowledge in foundational sciences through intensive coursework and practical sessions.
3. **International FDP on Data Science & Chat GPT** I completed the "International FDP on Data Science & Chat GPT," organized by EXCELER and hosted by KL Deemed to be University, from May 15th to 19th, 2023. This focused program provided insights into advanced data science techniques and applications, including the use of Chat GPT models.

4. **FDP on Technology, Pedagogy & Research I** participated in the "FDP on Technology, Pedagogy & Research" organized by the Department of Computer Science & Engineering at Integral University, Lucknow, held from November 25th to December 8th, 2021. The workshop aimed to enhance teaching methodologies and research skills in the field of technology and education.
5. **PDP on Statistical Data Analysis & Documentation with R** I attended the "PDP on Statistical Data Analysis & Documentation with R," organized by the Department of Mathematics & Statistics at Integral University, Lucknow, from November 16th to 29th, 2021. This program focused on practical applications of statistical analysis using R software and documentation techniques.
6. **STC on Data Analytics and Predictive Technologies** I participated in the "STC on Data Analytics and Predictive Technologies" organized by DAPT HUB FOUNDATION, IIT (BHU), Varanasi, from July 5th to 10th, 2021. The short-term course provided insights into cutting-edge data analytics and predictive technologies applications in various domains.
7. **Psychometric Testing and Analysis** I completed the "Psychometric Testing and Analysis" workshop organized by AKG & Ghaziabad Management Association at Ajay Kumar Garg Institute of Management, Ghaziabad, from November 23rd to 27th, 2020. This workshop focused on understanding and applying psychometric testing techniques in organizational settings.
8. **Recent Trends in Power Electronics Converters** I attended the seminar on "Recent Trends in Power Electronics Converters" organized by the Department of Electrical Engineering (ZHCET-AMU), Aligarh Muslim University, under the TEQIP-II project, on April 4th and 5th, 2014. The seminar aimed to explore advancements and innovations in power electronics converters.
9. **Design Thinking (User Centric Design)** I participated in the "Design Thinking (User Centric Design)" workshop organized by the Centre for Development of Technical Education (CDTE-IIT Kanpur) at Indian Institute of Technology, Kanpur, from September 1st to 5th, 2014. This workshop focused on applying design thinking principles to solve complex problems with a user-centric approach.
10. **STC on National Microwave Radar Remote Sensing & its Application** I participated in the "STC on National Microwave Radar Remote Sensing & its Application" organized by ISRO, Government of India, at Integral University, Lucknow, from April 10th to April 27th, 2017. This short-term course focused on the principles and applications of microwave radar remote sensing technology in various fields.
11. **FDP on Python Programming language** I attended the "FDP on Python Programming language" organized by the Department of Computer Engineering, Jamia Millia Islamia (JMI), New Delhi, in association with IIT Bombay, held from August 31st to September 4th, 2020. This faculty development program aimed to enhance skills in Python programming and its applications in computer engineering.
12. **FDP on Open Source Technologies** I participated in the "FDP on Open Source Technologies" organized by NITTTR Chandigarh, Government of India, conducted by the Department of Computer Science and Engineering, Integral University, Lucknow, from October 17th to October 21st, 2022. This one-week program focused on exploring various open-source technologies and their practical applications in computer science and engineering.

Current and past roles and responsibilities

- **Convener, B.Tech CSE Final Year Project Delivery Assurance and Internship Committee**
Year: Since May 2024
Details: Promoted to the role of Convener for ensuring project delivery and managing internships for final year B.Tech CSE students.

- Currently serving as the in-charge of **Criteria 9**, overseeing student support and progression in the Department of Computer Science and Engineering integral university for the **National Board of Accreditation process since 2023**.
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- **Program Officer, National Service Scheme (NSS)**
Years: 2015-2016
Details: Served as Program Officer for NSS for two consecutive years, recommended by the university to the Ministry of Youth Affairs and Sports, Government of India.
- **Member, Central Internal Quality Assessment Cell (IQAC) Integral University**
Years: 2016-2018
Details: Member of the Central Internal Quality Assurance Cell (IQAC), Responsible for managing faculty development and related tasks.
- **Worked under COE in Medal Degree Distribution Committee**
Event: 7th Convocation of Integral University, November 2015
Details: Assisted under the supervision of the Chief Operating Officer (COE) in the Medal Degree Distribution Committee during the university's 7th convocation.
- **Member, Departmental Placement Committee**
Years: September 2016 to 2021
Details: Actively participated in the Departmental Placement Committee, contributing to placement activities and initiatives within the department.
- **Member, Departmental Alumni Committee**
Year: Since June 2022
Details: Currently serving as a member of the Departmental Alumni Committee, involved in alumni engagement and related activities.
- **Member Secretary, B.Tech CSE Final Year Project Delivery Assurance and Internship Committee**
Years: April 2022 to May 2024
Details: Responsible for overseeing project delivery assurance and internship coordination for final year B.Tech CSE students.
- **Convener, Departmental Technical Committee**
Years: Since March 2022
Details: Appointed as Convener of the Departmental Technical Committee, responsible for technical initiatives and activities within the department.
- **Advisor, Technical Events Committee Fiesta, Integral University**
Years: Since 2018
Details: Serving as an advisor to the Technical Events Committee of Fiesta at Integral University, providing guidance and support for technical events.
- **Counselor, Technical Events Committee Fiesta, Integral University**
Years: 2016-2018
Details: Provided counseling and support to the Technical Events Committee of Fiesta at Integral University during these years.
- **Member, Technical Events Committee Fiesta, Integral University**
Years: 2014-2015
Details: Participated as a member of the Technical Events Committee for Fiesta at Integral University during these academic years.



Date: July 15, 2024

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