# Academic Resume

# Usman Ali Khan

## Associate Professor, Information Systems Department

## Contact Information.

Building 31, Room 137, Ext. 67508, ukhan@kau.edu.sa.

## Highest Degree.

2007, Ph.D. in Information Technology, Software Engineering, Integral University, India.

## Academic and Professional Experiences.

1. **2012 - Present**
   Associate Professor, Faculty of Computing and Information Technology, Deptt of Information Systems, King Abdulaziz University.
2. **2010 - 2012**
   Assistant Professor, Faculty of Computing and Information Technology, Deptt of Information Systems-Jeddah. Saudi Arabia, King Abdulaziz University.
3. **2007 - 2010**
   Assistant Professor, Department of Software Engineering- Benghazi-Libya, Garyounis University-Libya.
4. **1999 - 2007**
   Instructor, Faculty of Computer Science, Integral University-India.

## Research Interests.

AI and Machine Learning with Python Programming, Data Science, Data Mining, Software Engineering-Project Management.

## Teaching Interests.

Software Engineering-Project Management, Machine Learning with Python, Data Science and Data Mining.

## Certifications and Trainings.

1. Professional Project Management (PPM).
2. DB2, Web Technologies &amp; Software Development Concepts&rdquo; from IBM India Pvt. Ltd..
3. Visual Basic 6.0? from HRD, Government of India..
4. Introduction to SQL&rdquo; from Oracle Corporation, India..
5. How to Use Chat-GPT &amp; Excel For Data Analytics in April-2024.
6. MACHINE LEARNING AND ITS APPLICATIONS USING PYTHON FROM JUNE 13 TO JUNE 29 2022.
7. Advance Statistical Data Analysis using SPSS from Jan 21 27, 2024 One Week Online Workshop on Advance organized by Science Tech Institute, Lucknow, UP.

Last Profile Update: May      03, 2024

## Social, Scientific and Professional Affiliation.

1. -, Member, Interscience Research Network-India.
2. -, Member, The International Arab Conference (ACIT).
3. -, Member, The Arab Support Centre for Free and Open Source Software..
4. -, Member, International Association for Computer Scientists and Engineers (IACSE).

## Funded Projects.

1. 2024, Synthesizing a three Layer Architectural Framework for Adaptive Intelligent User Interfaces for the Disabled Community, KAU, In progress.
2. 2023, WQI Research No-10614-kau-2023-KAU-C-5-1-SE, RDIU-KAU, Under Arbitration: RDIA Project RCG.
3. 2023, I-Care: Research No-11099-kau-2023-KAU-C-5-1-HW, RDIU-KAU, Under Arbitration: RDIA Project RCG.
4. 2023, I-Glasses: Research No- 24718-kau-2023-KAU-B-4-1-EF, RDIU-KAU, Under Arbitration: RDIA Project BCG.

## Publications.

1. Maysoon Alzahrani, Usman Ali Khan, Sultan Al-Garni, "Ensemble And Transformer Encoder-Based Models For The Cervical Cancer Classification Using Pap-Smear Images", Journal Of Electrical Systems : Https://Journal.Esrgroups.Org/Jes/Article/View/1470, 2024.

2. Syed Humaid Hasan, Syeda Huyam Hasan, Usman Ali Khan, Syed Hamid Hasan, "Containerized Deep Learning In Agriculture: Orchestrating Googlenet With Kubernetes On High Performance Computing", Concurrency And Computation: Practice And Experience, 2024.

3. Zahid Ullah; Mona M. Jamjoom; Hatoon S. AlSagri; Samah H. Alajmani; Usman Ali Khan, "A Deep Learning Based Intelligent Decision Support System For Automatic Detection Of Brain Tumor", Complex And Intelligent Systems Springer Journal Pending Review, 2024.

4. Usman Ali Khan, "Synthesizing A Three Layer Architectural Framework For Adaptive Intelligent User Interfaces For The Disabled Community", Mathematics And Computer Sc, 2024.

5. Usman Ali Khan, "Neuroimaging And Machine Learning Fusion For Improved Brain Tumor Diagnosis And Prognosis", Brain Sciences Journal Pending Review, 2023.

6. Accepted Usman Ali Khan and Ankit, "Hybrid Noma-Dsss For Energy Efficient Spectrum In B5g Communication With Modified Co-Operative Cognitive Radio Networks", Journal Of Ambient Intelligence And Humanized Computing; Manuscript Number, Jaihc-D-20-02034r1 : Accepted Dec -2023 Q2 Web Of Science, 2023.

7. Mehtab Mehdi, Bharti Sharma, Usman Ali Khan, Mohammad Sayeed Khan, Ali Sirageldeen Ahmed, "An Advance Model To Predict Water Quality Index Of Groundwater Using Ann And Ada-Boost Algorithm", Icaaaiml-2023-International Conference On Advances And Applications Of Artificial Intelligence And Machine Learning, 2023.

8. Mohd Atif Kaleem, Parvez Mahmood Khan, Usman Ali Khan, "Strengthening Of Homomorphic Encryption For Cloud Environment Based On Particle Optimization Algorithm", International Conference On Computational Intelligence And Communication Technologies ( Ccict-2021) Pp 397-405 Isbn: 978-1-6654-2392-2/21/@2021 Ieee Doi: 10.1109/Ccict53244.2021.00078, 2021.

9. Syed Hamid, Usman Ali, "Software Development Methods ??? Properties And Advances", International Journal Of Computer Applications, vol: 178, pp. 26-32, 2019.
   DOI: 10.5120/ijca2019919436

10. Usman Ali Khan, "An Informative Study Of Project Management Constraints", International Journal Of Science And Research (Ijsr), vol: 8, pp. 693-695, 2019.
    DOI: 10.21275/ART20194868

11. Usman Ali Khan, "How Do Project Managers Evaluate And Plan For R& D Project", International Journal Of Innovative Research In Computer Science & Technology, vol: 6, pp. 129-132, 2018.
    DOI: 10.21276/ijircst.2018.6.6.3

12. Syed Faizan Haider, Usman Ali Khan, Muhammad Haleem Junejo, "Techno-Economic Growth- A Two Decadal Development Scenario In Ksa", International Journal Of Innovative Research In Computer Science & Technology, vol: 5, pp. 393-397, 2017.
    DOI: 10.21276/ijircst.2017.5.6.3

13. Usman Ali Khan, Syed Faizan Haider, "Impact Of Quantitative Analysis Techniques In Enhancing Time Management", International Journal Of Innovative Research In Engineering & Management, pp. 749-752, 2017.
    DOI: 10.21276/ijirem.2017.4.5.3

14. Dr. Abdulfattah Masha, Dr. Ibrahim Al Bidewi, Dr. Usman Ali Khan, Dr. M. Khursheed Akhtar, "The Criteria For Selecting Strategic Execution Software For Higher Education", International Journal Of Innovative Research In Engineering & Management, vol: 3, pp. 536-543, 2016.
    DOI: 10.21276/ijirem.2016.3.6.15

## Publications.

15. Afnan Atiah Alsolamy, Usman A. Khan, P. M. Khan, "It-Business Alignment Strategy For Business Growth", 2014 International Conference On Computing For Sustainable Global Development (Indiacom), pp. 364-366, 2014.
    DOI: 10.1109/IndiaCom.2014.6828160

16. Khulood Salem Albeladi, Usman A. Khan, P. M. Khan, "Driving Business Value Through An Effective It Strategy Development", 2014 International Conference On Computing For Sustainable Global Development (Indiacom), pp. 561-563, 2014.
    DOI: 10.1109/IndiaCom.2014.6828021

17. Asif Irshad Khan, Md. Mottahir Alam, Noor-ul- Qayyum, Usman Ali Khan, "Empirical Study Of An Improved Component Based Software Development Model Using Expert Opinion Technique", International Journal Of Information Technology And Computer Science, vol: 5, pp. 1-14, 2013.
    DOI: 10.5815/ijitcs.2013.08.01

18. Asif IrshadKhan, Md. Mottahir Alam, Noor-ul-Qayyum Noor-ul-Qayyum, Usman Ali Khan, "Validation Of Component Based Software Development Model Using Formal B-Method", International Journal Of Computer Applications, vol: 67, pp. 24-35, 2013.
    DOI: 10.5120/11423-6768

19. Kunal Gupta, "Critical Analysis Of The User Interfaces For The Disabled Community", Www.Ijcaonline.Org, 2012.

20. Usman Ali Khan, "The Evolution Of Component Based Software Engineering From The Traditional Approach To Current Practices", , vol: Vol-2- NO.2, 2012.

21. Usman Ali Khan, Ibrahim Albidewi, "An Effective Quality Requirement Framework For Requirements Accuracy And Software Development", , vol: Vol-2, No.2, 2011.

22. Usman Ali Khan, Rizwan Qureshi, Asif Irshad Khan, "A Comprehensive Study Of Commonly Practiced Heavy & Light Weight Software Methodologies", , vol: Vol. 8, Issue 4, No 1, 2011.

23. Usman Ali Khan, Kunal Gupta, Ibrahim Albidewi, "Object-Oriented Software Methodologies: Roadmap To The Future", , vol: Vol. 8, Issue 5, No.2, 2011.

24. Usman Ali Khan, Kunal Gupta, Ibrahim Albidewi, "Challenges In Component Based Software Engineering As The Technology Of The Modern Era", , vol: VOL-1 No-2, pp. 67-72, 2011.

25. Usman Ali Khan, "To Analyze And Improve The Quality Of Requirements By An Effective Model", , 2009.

26. Usman Ali Khan, "Current Challenges For Developing An Advanced Real Time Systems", International Conference On Advances In Computer Vision And Information Technology, 2009.

27. Usman Ali Khan, "U2ml: A Framework Tool For Good Practice In Modeling", , vol: 2 No.2, pp. 53-55, 2009.