

CURRICULUM VITAE

Dr. RAVI KHATWAL

Associate Professor

Department of computer science and engineering

Sangam university , Bhilwara

Email address: - ravi.khatwal@sangamuniversity.ac.in

ravisoft4@gmail.com

Mob no.:- +919928545472

Residential address:

45/477 , Danta bheru

gogunda house,udaipur

Objectives:-

To work in an organization which provides me the opportunity to hone the skills which I have gained, to learn more and to contribute towards the growth of the Organization , thus creating a distinct identity.

Patent Published:-

- Iot Based Device For Assessing Magnetic Field Of Bar Magnet And Method Of Assessment Thereof

<i>Application number</i>	<i>Date of filing</i>	<i>Published date</i>
202311002653	12/01/2023	20/01/2023

- Intelligent system and method for child monitoring and tracking system based on the internet of things

<i>Application number</i>	<i>Date of filing</i>	<i>Published date</i>
202131040445	07/09/2021	15/10/2021

Software tool and language proficiency:-

- C, C++, JAVA, C#, VB.NET, sql, hive, SCALA, PYTHON, SPARK.
- Kafka, Big Data Hadoop.
- .NET, ORACLE, Net beans.

- AUTO-CADD, 3-DMAX.
- 8085 language, 8086 assembly language. language
- Xilinx (Vivado), Matlab, Origin8, Micro wind, ALTERA Tool.
- ARM DS-5, ARM compiler 6.4.
- Keil u vision4, Simple scalar, Vex, LLVM, SUIF.
- Selenium software testing
- Power BI, tableau
- UML design software-star UML etc.
- High split simulator
- Python
- Matlab
- Julia

International Membership:-

- ACM, IEEE, IAENG, CHINA, CSI (COMPUTER SCOCITY OF INDIA).
- Sangam university ICAIR – International Conference Member
- IPMA, California, AAPS (America)

Awards or Best Performance

- Best paper award in IEEE, Nmit Conference,2024.
- Best research scientist award at Sangam University YEAR-2023 Paper Title “An Efficient Advance Architecture Analysis in Detect Disease of Rice Leaves by DCNN”.
- Best research scientist award at Sangam University YEAR-2022 Paper Title “A Framework for Artificial Intelligence Application in Health Care Revenue Management Cycle”.
- Best paper awarded by Aligarh Muslim University on international conference 2023.
- Best paper awarded by Sangam University, Bhilwara on international conference 2023.
- Review committee members in IEEE international conferences [AIKIIIE-2023].
- Review committee members in IEEE international conferences [ERCICAM - 2024.].
- Review committee members of American journals of computer science.

Professional qualification:-

- RED HAT Certified Engineer by LINUX WORLD, Jaipur.

- MICROSOFT Certified Technology Specialist (MCTS-505, MCTS-562, And MCTS-528) With 70% By HCL CDC Center, Udaipur.

Projects and websites:-

- Create web site in ASP.NET (ONLINE BOOK STORE).
- www.rarchdesign.com.
- www.mewarshree.com

Phd. Thesis guided and supervised:-

Thesis submitted:

1. Syed Nasir Hasan
2. Raj Kumar Jain
3. Rajendra kachava

Scholar allocated

1. Tasio saliu
2. R. Senthil
3. Shamika singh
4. Dinesh Kumar
5. Suman Shaktawat

PG. Thesis guided and supervised:-

PG-Thesis submitted and awarded:

1. Prakash Salvi

FDP Attended:-

- Faculty developments programs attended on the topics “How to Develop Project Proposal”, Sangam University, Bhilwara, Rajasthan, 20-21/10/2022.
- Faculty developments programs attended on the topics “Challenges Before He is In Remote Areas For Achieving Quality Improvement Through Assessment & Accreditation Process”, Sangam University, Bhilwara, Rajasthan, 25-25/11/2022.
- Faculty developments programs attended on the topics “Benchmarking quality enhancement initiatives innovative practices”, Sangam University, Bhilwara, Rajasthan, 12 to 13 July, 2022.
- Faculty developments programs attended on the topics “outcome based education & its implementations”, Sangam University, Bhilwara, Rajasthan, 12 to 13 April, 2022.
- Faculty developments programs attended on the topics “ICT Tools for effective teaching learning”, Sangam University, Bhilwara, Rajasthan, 26-july to 2 august 2021.

Research and Teaching Experience:-

Positions	Year	Place
Associate professor	2024-25	Department of computer science and engineering, Sangam university, bhilwara (raj.)
Assistant professor	2020-24	Department of computer science and engineering, Sangam university, bhilwara (raj.)
Guest faculty (Ass. Professor.)	2019-20	Department of computer science, Mohan lal Sukhadia University, Udaipur (Raj.).
Guest faculty (Ass. Professor.)	2018-19	Department of computer science, Mohan lal Sukhadia University, Udaipur (Raj.).
Guest faculty (Ass. Professor.)	2017-18	Department of computer science, Mohan lal Sukhadia University, Udaipur (Raj.).
Guest faculty (Ass. Professor.)	2016-17	Department of computer science, Mohan lal Sukhadia University, Udaipur (Raj.).
Senior researcher (UGC-SRF)	2013-16	Department of computer science, Mohan lal Sukhadia University, Udaipur (Raj.).
Junior researcher (UGC-JRF)	2011-13	Department of computer science, Mohan lal Sukhadia University, Udaipur. (Raj.)
Lecturer	2010-11	Gov. Bangur College, Pali (raj.)

Area of research interested:-

➤ ASIP design.

➤ Big data, Hadoop.

➤ Compiler design.

➤ Embedded system.

➤ Data Science

➤ Computer network.

➤ Artificial intelligence

➤ Software testing and quality assurance

➤ Machine learning

➤ IOT

➤

Educational qualification:-

YEAR	DEGREE	INST./BOARD/UNIV.	SCORE
2017	Ph. D (COMPUTER SCIENCE)	MLSU,UDAIPUR	
2009	MSc	CHTM(R.U.),JAIPUR	71%
2007	BSc-Bio-TECH.	BITS(MLSU),UDAIPUR	61%
2002	S.S.C.	RBSE,AJMER	56%
2000	H.S.C.	RBSE,AJMER	67%

List of Workshop /Seminar/Conference/Webinar:-

- S.N.HASAN And R. Khatwal “Challenges and issue analysis in cold start recommendation system”, ICWTNS-2022, AL-BALQA Applies university, JORDAN, Jordan university, Jordan, 6-8 Oct 2022.
- Big data abetting the digital transformation in global world, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), Sangam university,Bhilwara,india,6-8 Oct 2022.
- A framework for artificial intelligence applications in the healthcare revenue management cycle, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022.
- Machine learning based cold start identification and analysis for recommendation system, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022.
- AN Efficient advance architecture analysis in detect disease of rice leaves by DCNN, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA,6-8 Oct 2022.
- The challenges of developing a health monitoring system based on the IOT, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022.
- Big data processing and architecture analysis for business intelligence, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA,6-8 Oct 2022.

- Advancement in assistive technology integration with IOT Devices, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022.
- Nano science and technology consortium conducted workshop on “Synthesis of carbon quantum dot”, Nano biotechnology center, india. 04-08, July, 2022.
- A Case Study of Effective Impact of AIOPS in MTTR Design, International Conference on Analytical & Interdisciplinary Research (ICAIR-2021), INDIA, 5-6 Feb 2021, pp. 1-4.
- Learning symbolic equations with deep learning, ACM Webinar by Shirley ho, NEWYORK University, 7,06,2021.
- International webinar on the topics “quantum computing approaches”, W.D. Oliver, **Lincon Laboratory, MIT, United States**, 18AUG2021.
- International webinar on the topics “evolutionary learning and its engineering applications”, IEEE- Bangalore Section, 21 MAY, 2021.
- International webinar on the topics “Creating datasets for environmental sustainability problems in developing countries”, iit delhi, 12, july 2021.
- National webinar on the topics “finishing Ph.D.”, sangam universities, 25 sept 2021.
- National webinar on the topics “the status and scope of geographical tourism in mewar region”, school of arts and humanities, Sangam University, bhilwara, 15-16 july, 2021.
- National webinar on the topics “Shree Krishna jeevan darshan”, school of arts and humanities, sangam university, bhilwara, 04 sept , 2021
- National webinar on the topics “Awareness of covid pandemic”, school of basic and applied science, Sangam University, bhilwara, 29-30 may, 2021.
- National IMOBILE webinar on the topics “Creating datasets for environmental sustainability problems in developing countries”, iit delhi, 12, july 2021.
- National webinar on the topics “chemical modeling, design and developments for sustainable life”, school of basic and applied science , sangam university, bhilwara, 27-28 may, 2021
- Workshop on the topics “Securing the smart cities with internet of things (IoT) and block chain” department of computers science, central university of Rajasthan, kishangarh, March 05-7, 2020.

- Rajasthan science congress sponsored international conference on “current scenario in science and technology: facing the challenges and creating opportunities” participation at mlsu, Udaipur, India.
- National workshop on machine learning and artificial intelligence organized by Delhi Technical University, Delhi, India, Dec.22, 2019.
- National workshop on Zynq-7000SOC using VIVADO organized by Corel technology pvt. Ltd., India, Sept-14, 2015.
- National workshop on scientific research writing organized by the national academy of science, India, April 5-7, 2013.
- National workshop on Matlab and IT’S Applications organized by Computer society of India and Mohan Lal Sukhadiya university, India, Udaipur, Jan,7-13, 2012.
- National workshop on Communication and Soft Skill: The Changing Paraglisme organized by Mohan Lal Sukhadiya University, India, Udaipur, Jan., 5-11, 2011.
- National workshop on GIS organized by Computer Society of India Mohan Lal Sukhadiya University, India, Udaipur, AUG., 20-21, 2011.
- Rajasthan science congress sponsored international conference on “current scenario in science and technology: facing the challenges and creating opportunities” participation at mlsu, Udaipur, India.

List of National and international publications:-

- R. Senthil, R.Khatwal, “An Effective Disease Detection Analysis on Rice Leaves Using Hybrid Mcsvm-Dnn Predictor Architecture”, 2025, pp.84-97, Remote Sensing (Springer Nature).
Doi: [10.1007/S41976-024-00175-3](https://doi.org/10.1007/S41976-024-00175-3).
- V.S. Bhati,A. Saxena, R.Khatwal “Exploring Air Quality Dynamics and Predictive Modeling by Using Artificial Intelligence During COVID-19 Lock Down Over the Western Part of India”,current world environment,2024 vol.19(2).
DOI: [http://dx.doi.org/10.12944/CWE.19.2.36](https://dx.doi.org/10.12944/CWE.19.2.36)
- V.S. Bhati,A. Saxena, R.Khatwal “Emphatic Repercussions Of Iot Based Air Pollution And Ground-Based Concentration Monitoring Over Western Part Of India I.E., Udaipur”, IEEE Explore, 09-10 August 2024,
DOI:[10.1109/Nmitcon62075.2024.10698885](https://doi.org/10.1109/Nmitcon62075.2024.10698885).

- R. Khatwal, S.N.HASAN, “User Profile and Interest-Based Machine Learning To Solve the Cold Start Problem for a Recommendation Engine, IEEE, Explore. pp. 1-6, 04 May 2023.
- R. Khatwal, T. A. Salisu, “Cost Effective Big Data Storage Architecture Analysis by Using Operational Methodology”, CIMS journals, 28(12), 2541–2564, 2022.
- R. Khatwal, T. A. Salisu, “An Efficient Storage Management Analysis for Big Data”, August 2022, Journal of Information and Computational Science 12(8):97-113, 2022.
- R. Khatwal, S.N.HASAN, “Cold start Problem in recommendation system, a solution model based on clustering and association rule techniques, IEEE, Explore. pp. 1-5, 2022.
- R. Kachhava, R. Khatwal, “Health Care System with Intelligent Behavior Data Analytics Design Optimization Technique, the journal of oriental research, madras pp.15-20, 2022.
- R. Kachhava, R. Khatwal “A framework for artificial intelligence applications in the healthcare revenue management cycle”, Shodhasamhita, Vol.No.7 (V), pp.113-120, 2022.
- R. Kachhava, R. Khatwal “Big Data Analytics In Health Care: Promise and Potential”, Anvesak, Vol.52, No.7 (II), pp.120-126, 2022.
- R. Khatwal “A study of platform relative query execution statistics analysis”, AICTE sponsored International conference on Efficient implementation of digital India and cashless transactions, pp.1-5, Nov. 27-28, 2017.
- R. Khatwal and M.K. Jain “An Effective Reconstruction of Replica Memory Design Optimization for Embedded System,” International Journal of Electronics Engineering Research, Vol.9 (4), 2017, pp.575-586.
- R. Khatwal and M.K. Jain “An Efficient Application Specific Memory Storage and ASIP Behavior optimization in Embedded System,” International journal of advanced computer science and application, Vol.7 (7), 2016, pp.179-190.
Doi: 10.14569/IJACSA.2016.070725.

- R. Khatwal and M.K. Jain “An Integrated architectural clock implemented memory design analysis,” International journal of advanced computer science and application, Vol.6 (7), 2015, pp.113-124.
Doi: 10.14569/IJACSA.2015.060717.
- R. Khatwal and M.K. Jain “Application specific cache simulation analysis for application specific instruction set processor,” International journal of computer application. Vol. 90(13), 2014, pp.31-41.
Doi: 10.5120/15782-4526.
- R. Khatwal and M.K. Jain “Application specific hardware design simulation for high performance embedded system,” International journal of computer application. Vol. 96(10), 2014, pp.55-46.
Doi: 10.5120/16834-6599.
- R. Khatwal and M.K. Jain “MIPS Integrated Architectural memory design synthesis for low power embedded system,” International journal of computer application. Vol. 108(13), 2014, pp.55-66.
Doi: 10.5120/18971-0428.
- R. Khatwal and M.K. Jain “An Efficient synchronous static memory design for embedded system,” International journal of computer application. Vol. 66(18), 2013, pp.39-45.
Doi: 10.5120/11187-6411.
- R. Khatwal and M.K. Jain “High performance simulators analyzing efficient cache memory simulation behavior” international journals of soft computing and engineering, Vol.3(1),2013,pp.1-6.
Doi: 10.5120/11187-6411.

List of book chapter national or conference chapter:-

- An impact of online teaching methodology during covid-19 pandemic, Pandemic problems and innovation, Mewar shree publication, INDIA, pp.78-86.2022.
- Big data processing and architecture analysis for business intelligence, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA,6-8 Oct 2022,pp.21.
- Big data abetting the digital transformation in global world, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), 6-8 Oct 2022,pp.23.

- A framework for artificial intelligence applications in the healthcare revenue management cycle, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022, pp.28.
- Machine learning based cold start identification and analysis for recommendation system, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022, and pp.17.
- AN Efficient advance architecture analysis in detect disease of rice leaves by DCNN, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA,6-8 Oct 2022,pp.20.
- The challenges of developing a health monitoring system based on the IOT, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA, 6-8 Oct 2022, and pp.18.
- Advancement in assistive technology integration with IOT Devices, International Conference on Analytical & Interdisciplinary Research (ICAIR-2022), INDIA,6-8 Oct 2022,pp.18.

Others activity:

1. Rapporteur In ICAIR-2023, Sangam University Conference
2. Organizing secretary In ICAIR-2022, Sangam University Conference
3. Attended seminar Impact of national education policy on higher education with special reference to girl's education: scientific and technical terminology, National Seminar, Department Of Higher Education, New Delhi Attended
4. Join national conference on pulmonary disease under the aegis of national college of chest physician and Indian chest society (ICS), "Encourage precision Medicine" Napcon 2022, RNT Medical College, Udaipur conference Attended
4. Workshop Attended on Synthesis Of Carbon Quantum Dot, NTSC, Nanotechnology Center, New Delhi.
5. Event Coordinator in La-Union Secret Agent Event Organize By Sangam University, Bhilwara.
6. Event Coordinator in La-Union paper presentation Event Organize by Sangam University, Bhilwara.
7. IEEE review committee member.
8. B.tech CSE & AI Programme coordinator (2024-25).

9. Computer Science Department Research Committee Members.
10. Departmental exam committee members.
11. Research committee members in ICAIR-2024, Sangam University Conference.

Date: 22/05/2025

Place: Bhilwara

with Truly

Dr. RAVI KHATWAL