

CURRICULUM VITAE

Dr. VIKAS SOMANI (Ph.D., M.Tech, MCA, BCA)

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Designation- Dean, Research, Professor-Department Computer Science & Engineering,
HOD, Department of Computer Science & Engineering, Sangam University, Bhilwara
Father's Name- Mr. Kedar Mal Somani

Date of Birth- 15th Sep., 1983

OCID- 0000-0002-2562-2581

Research Gate ID- <https://www.researchgate.net/profile/Vikas-Somani-4>

Google Scholar ID- <https://scholar.google.com/citations?user=-PZvY5sAAAAJ&hl=en>

WOS - <https://www.webofscience.com/wos/author/record/AGP-2413-2022>

Vidwan ID - <https://vidwan.inflibnet.ac.in/profile/581404>

Scopus ID: 58312950500

Teaching Experience:

1. Professor, Department of CSE, Sangam University, Bhilwara since Feb., 2012
2. Guest Faculty, College of Agriculture, Bhilwara since August 2020.
3. Guest Faculty, Sangam School of Excellence, Bhilwara as Guest Faculty since Sept., 2017
4. Assistant Professor, Department of CSE, Institute of Technology & Management, Bhilwara from Nov., 2009 to Feb., 2012.
5. Lecturer, Department of CSE, Swift College of IT & Management, Bhilwara from Jan., 2008 to Nov., 2009.

Professional Experience:

1. Web Developer, HTMT Global Solutions, Mumbai from January, 2007 to December, 2007
2. Web Developer, Hurket Software Solutions, Bhilwara from January, 2008 to July 2009
3. Web Developer, RCM Business, Bhilwara from March 2009 to September 2009.

Professional Qualification:

1. *PhD from Janaradan Rai Nagar Rajasthan Vidyapeeth (Deemed-to-be University) (NAAC Accredited 'A' Grade University), Udaipur*
2. *"Digital Marketing Certificate Program" from Manipal Global Education Service Pvt. Ltd. In 2016.*
3. *Master of Technology (Information Technology) from Karnataka Open University, Maysoore passed-out in 2012*
4. *Master of Computer Application (MCA) from Rajasthan University, Jaipur passed-out in 2007*
5. *Bachelor of Computer Application (BCA) from MCRPV University, Bhopal in 2004*

Research Paper Published in Peer Review Journal:

1. Paper published on “AI IN ACTION: ENHANCING SKIN CANCER DETECTION WITH MACHINE LEARNING”, Journal of Advanced Research in Applied Science and Engineering Technology Special Vol. 1, Issue 1 Oct (2024). ISSN: 2462-1943
2. Paper published on “MACHINE LEARNING APPROACH FOR REGRESSION TESTING: A CASE STUDY IN MARKOV CHAIN MODEL”, International Journal of Intelligent Systems and Applications in Engineering (IJISAE), 2024, 12(20s), 945–952 | ISSN:2147-67992 [**SCOPUS**]
3. Paper published on “NOVEL FRAMEWORK FOR IOT SECURITY; INTEGRITY AI – POWERED INTRUSION DETECTION AND ADAPTIVE FIREWALLS” in Sangam International Journal of Multidisciplinary Research Vol. 1 Issue 2, March 2024. E-ISSN: 2584-086X. [**Open Access Journal**]
4. Paper published on “WAREHOUSE SECURITY AND COST OPTIMIZATION BY CATEGORY OF ITEMS” in TuijinJishu Journal of Propulsion Technology, ISSN: 1001-4055 Vol. 44 Issue-6 2023 [**SCOPUS**]
5. Paper published on “A COST-EFFECTIVE RECRUITMENT HIRING ANALYSIS FOR BIG DATA” in International Journal of Innovative Science and Research Technology, Vol. 8 issue-7, July 2023. ISSN: 2456-2165. [**UGC CARE**]
6. Paper published on "PRIORITIZING SOFTWARE REGRESSION TESTING USING REINFORCEMENT LEARNING AND HIDDEN MARKOV MODEL", in International Journal of Computers and Applications 2273585 Volume 45, 2023 - Issue 12, 21 Nov 2023 DOI: 10.1080/1206212X.2023.2273585. [**Taylor & Francis, SCI**]
7. Paper published on “INDIAN LIVESTOCK FARM MANAGEMENT METHODOLOGIES: A SURVEY”, International Journal of Emerging Research in Engineering, Science, and Management Vol. 2, Issue 2, pp.01-09, Apr-Jun 2023. eISSN – 2583-4894 [**Open access unpaid Journal**]
8. Paper Published on "CHATGPT: OPTIMIZING TEXT GENERATION MODEL FOR KNOWLEDGE CREATION", i-manager's Journal on Software Engineering, Vol. 17 1 No. 3 1 January - March 2023 [**OPEN ACCESS**]
9. Paper published on “A MULTI-BIOMETRIC RECOGNITION SYSTEM BASED ON RANDOM FOREST CLASSIFIER” in the advanced engineering science ISSN: 2096-3246 Vol. 54, Issue 02, NOVEMBER 2022. [**SCOPUS**]
10. Paper published on "EARLY-STAGE PREDICTION & DETECTION OF GUAVA LEAVES DISEASE USING GENETIC ALGORITHM", International Journal of Early Childhood Special Education (INT-JECS) 523 DOI:10.9756/INTJECSE/V14I7.52 ISSN: 1308-5581 Vol 14, Issue 07, 2022 [**SCOPUS**]
11. Paper published on “DESIGN A SMART SAFETY DEVICE FOR WOMEN'S SAFETY USING RASPBERRY PI PICO & IMPLEMENTATION IN IOT” in the International Journal of Early Childhood Special Education (INT-JECSE) DOI:10.9756/INTJECSE/V14I6.302 ISSN: 1308-5581 Vol 14, Issue 06 2022 [**SCOPUS**]

12. Paper published in THE JOURNAL OF ORIENTAL RESEARCH MADRAS, ISSN: 0022-3301 [Vol. XCIII-VIII] on “MACHINE LEARNING TECHNIQUE TO IDENTIFY DISEASE ON TOMATO PLANT LEAVES”, Date- May, 2022. [**UGC CARE GROUP-1**]
13. Paper published on “CLOUD COMPUTING TASK SCHEDULING MODEL BASED ON IMPROVED OPTIMIZATION ALGORITHM” in ANVESAK Vol. 52 issue 3, ISSN: 0378-4568 January-June 2022 [**UGC Care Group-I Journal**].
14. Paper published on “PADDY LEAF DISEASE DETECTION USING IMAGE PROCESSING” in the Turkish Journal of Physiotherapy and Rehabilitation; 32(3) ISSN 2651-4451 | e-ISSN 2651-446X. [**SCOPUS**]
15. Paper published on “ASSESSMENT OF THE WAREHOUSE FUNCTIONS TO IMPROVE PRODUCTIVITY” in Mukt Shabd Journal Vol. XI, Issue VI on June 2022. [**UGC Care**]
16. Paper published on “AUTOMATIC DETECTION OF MALARIA AND SICKLE CELL ANEMIA USING D-CNN” in international journal of early childhood special education [INT-JECSE] vol. 14, issue 06 on July 2022. [**SCOPUS**]
17. Paper published on “AN EFFICIENT AND ROBUST IRIS SEGMENTATION ALGORITHMS USING DEEP LEARNING” in ANVESAK a bi-annual journal. Vol. 52 issue 4, on Jan-June 2022. [**UGC CARE Group-1**]
18. Paper published on “DATA MINING IN THE ERA OF ELECTRONICS DATA MANAGEMENT IN DIGITAL EXAMINATION SYSTEM” in ANVESAK a bi-annual journal. Vol. 52 issue 6, on Jan-June 2022. [**UGC CARE Group-1**]
19. Paper published on “DESIGNING AND IMPLEMENTING AN ADAPTIVE ONLINE EXAMINATION SYSTEM USING ARTIFICIAL INTELLIGENCE” in ANVESAK a bi-annual journal. Vol. 52 issue 4, on Jan-June 2022. [**UGC CARE Group-1**]
20. Paper Published on “AN EXPERIMENTAL STUDY OF DEEP CONVOLUTION FEATURES FOR IRIS RECOGNITION” in Journal of Oriental Madras, vol. XCIII-VI, 2022. ISSN-0022-3301 [**UGC CARE Group-1**]
21. Paper published on “ENERGY EFFICIENT TASK SCHEDULING ALGORITHMS FOR CLOUD COMPUTING DATA” in the in Turkish Journal of Computer and Mathematics Education Karadeniz Technical University E-ISSN 1309-4653 Date- 01/10/2020 [**SCOPUS**]
22. Paper published on “AN EFFICIENT RESOURCE UTILIZATION BASED INTEGRATED TASK SCHEDULING ALGORITHM USING CLOUD COMPUTING” in the Mattingley Publishing Co., Inc, Test Engineering & Management Journal vol. 83, on May/June 2020 ISSN: 0193-4120 Page No. 30810-30815. [**SCOPUS**]
23. Paper published on “A REVIEW ON BLOCK CHAIN IN CLOUD COMPUTING HEALTHCARE DATA SECURITY “ in the published in Journal of Advance Research in Dynamical & Control Systems, Vol. 11, Issue-07, 2019 [**SCOPUS**]

24. Paper published “UTILIZING CLOUD COMPUTING FOR STRONGER HEALTHCARE DATA SECURITY” in the Journal of Advance Research in Dynamical & Control Systems, Vol. 11, Issue-07, 2019 [SCOPUS]
25. Paper published on “FORMAL WEB SERVICES DESCRIPTION LANGUAGE BASED TEST CASES CREATION FOR TESTING WEB SERVICES” in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; Volume 6 Issue III, March 2018 [UGC CARE]
26. Paper published on “SOCIAL MEDIA SECURITY RISKS, CYBER THREATS AND RISKS PREVENTION AND MITIGATION TECHNIQUES” in the IJSART - Volume 4 Issue 4, ISSN: 2395-1052 April 2018 [UGC CARE]
27. Paper published on “SOCIAL MEDIA IMPACT ON SMALL MEDIUM ENTERPRISES” in the International Journal of Latest Technology in Engineering Management & Applied Science (IJLTEMAS) ISSN 2278-2540, Vol 2 Issue-11, Nov 2013. [UGC CARE]

Book Chapter:

1. Book chapter on “Building a Secure IoT Firewall Framework Leveraging Intrusion Detection Technologies” in Sustainable Materials and Technologies in VLSI and Information Processing, Taylor & Francis group London, ISBN- 978-1-041-07351-3 DOI: 10.1201/9781003641551-1 [Taylor & Francis]
2. Book chapter on “Exploring IoT Intrusions: Advanced Techniques for Detection, Prevention, and Response” in Sustainable Materials and Technologies in VLSI and Information Processing, Taylor & Francis group London, ISBN- 978-1-041-07351-3 DOI: 10.1201/9781003641551-1 [Taylor & Francis]
3. Book Chapter on “Comprehensive Study of Computational Methodologies for Air Pollution Control” in the Comprehensive Study of Computational Methodologies for Air Pollution Control. In Computational Techniques in Environmental Engineering, edited by A. K. Yadav. DOI: 10.1201/9781003605553-3. [CRC Press]
4. Book Chapter on “Secure Data Collection, Aggregation, and Sharing in the Internet of Things” in the Secure Communication in Internet of Things: Emerging Technologies, Challenges, and Mitigation 2024 | Book chapter Part of DOI: 10.1201/9781003477327-7 EID: 2-s2.0-85195350210 Part of ISBN: 9781040025130 9781032435732 [CRC Press]
5. Book chapter on “Design and Development of IoT-Based Intelligent Cattle Shed Management” in the Proceedings of 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications ICMISC 2022 <https://doi.org/10.1007/978-981-19-6088-8> © The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2023 [Springer Nature]
6. Book chapter is accepted in “EAI/Springer Innovations in Communication and Computing” with title EARLY DETECTION AND ANALYSIS OF DIABETICS AND NON-DIABETICS USING

MACHINE LEARNING” and ISSN no.- E-2522-8609/P- 2522-8595 on Date- 26 July 2022. [Springer Nature]

7. Book chapter on “Intelligent System for Cattle Monitoring: A Smart Housing for Dairy Animal using IoT” in the International Conference on Paradigms of Communication, Computing and Data Science (PCCDS 2022), date- 05-07 July 2022. [Springer Nature]
8. Book Chapter published in “AkiNik Publications” with title "INTERNET OF THINGS (IOT) FOR ADOPTION OF PRECISION AGRICULTURE PRACTICES AMONG INDIAN ROW-CROP PRODUCERS". ISBN- 978-93-5570-111-4 Book Title "Trends in Agriculture Using IoT".

Book Edited:

1. Data Security environment in Cloud Computing, Publisher: Scholar Press, ISSN: 978-6138838319, 2022-08-15 [International Publisher]
2. Implementation of fast and reliable multispectral IRIS segmentation using deep learning, Publisher: SU Publications, ISSN: 978-81-970242-9-0 [International Publisher]

Course Coordinator for MOOC / Short Term Course:

1. Received Appreciation for “**Active SPOC based on performance & Participation of Candidates for the JAN-APR 2024 semester**” from SWAYAM-NPTEL local chapter.
2. Received Appreciation for “**Active SPOC based on performance & Participation of Candidates for the JULY-DEC. 2023 semester**” from SWAYAM-NPTEL local chapter.
3. Appointed as an Educator by **AWS Academy**.
4. Received certificate from AWS academy for completion of “**AWS Academy Graduate – AWS Academy Cloud Architecting**”.
5. Received certificate from AWS academy for completion of “**AWS Academy Graduate – AWS Academy Machine Learning**”.
6. Received Appreciation for “**Active SPOC based on performance & Participation of Candidates for the JAN-APR 2022 semester**” from SWAYAM-NPTEL local chapter.
7. Completed and received passing grade in “**PYTHON 101 FOR DATA SCIENCE**”, powered by IBM Developer Skills Network on 15 May 2023.
8. Participated in AICTE recognized Short Term Course on “**FREE SOFTWARE AND RESOURCES FOR TECHNICAL EDUCATION THROUGH ICT**” from 21st March to 25th March 2022, conducted by National Institute of Technical Teachers Training and Research, Chandigarh MINISTRY OF EDUCATION, GOVERNMENT OF INDIA.
9. Completed the Cisco Networking Academy course “**INTRODUCTION TO PACKET TRACER**” on 28 May 2022.

10. Completed the Cisco Networking Academy course “**INTRODUCTION TO CYBERSECURITY COURSE AND DEMONSTRATING THE ABILITY TO EXPLAIN THE CYBER SECURITY TERMS**” on 28 May 2022.
11. Recognizes the active **instructor** in the Cisco Networking Academy Program on 03 June 2022.
12. Successfully completed “**Oracle Database 10g: Administration Workshop | Ed3**” an Oracle University training class on 27 Sept. 2012.
13. Successfully completed “**Oracle Database: Program with PL/SQL Ed1**” an Oracle University training class on 21 Sept. 2012.
14. Google Digital Unlocked Online Marketing Fundamentals

Research Scholar Degree Awarded:

S.No.	Scholar Name	Enrollment No.	Thesis Title	Year
1	Sankarsan Panda	2019PHCS0486	Development of Artificial Intelligent System for Identifying Crop and Vegetable Diseases.	2022
2	Anvesh Singh	2019PHCS0482	Task Algorithms for Resource Utilization in Cloud Computing.	2022
3	Khaja Ziauddin	2017PHCS0328	Multimodal Biometric Recognition with Optimal Feature Selection and Classification.	2022
4	Deepak Kumar Chaudhary	2019PHCS0483	Artificial Intelligence Based Digital Examination System.	2023
5	Priyanka Mehta	2018PHCS1291	Design and Implementation of Smart Security System for Women Safety using Internet of Things (IoT).	2023
6.	Shanti Lal Vishnoi	2018PHCS0607	Metamorphic Testing of Web APIs	2023
7.	Nirmal Singh	2019PHCS009	Design & Implementation of Smart IoT Based System for Improving the Efficiency of Warehouse	2024
8.	Stuti Saxena	2019PHCS1394	Implementation of Fast and Reliable Multi Spectral Iris Segmentation Using Deep Learning	2024
9.	Neelam Rawat	2020PHCS002	Machine Learning Driven Test Case Prioritization for Software Testing Automation	2024

Research Project / Consultancy:

S.No.	Name of the Scheme / Project	Name of the funding agency	Type (Government / Non-Government)	Year	Amount
1	Hackathon 2.0	Ministry of Small, Macro and Medium Enterprise, New Delhi	Government	2023-24	1500000
2	Website Design and Development	Soni Hospital	Non-Government	2022-23	16650
3	Website Design and Development	Sangam India Ltd.	Non-Government	2023-24	48074
4	Website Design and Development	Sangam Journal	Non-Government	2022-23	18700
5	Website Design and Development	Sangam Farm	Non-Government	2024-25	45000
6	Website Design and Development	Sangam Farm Fresh	Non-Government	2024-25	120000
7	Website Design and Development	Sangam Rise Foundation	Non-Government	2024-25	40000
8	Website Design and Development	Srijan Santhan	Non-Government	2024-25	18000

Patents:

1. Title- “REAL-TIME DISASTER INFORMATION AGGREGATION SOFTWARE USING DEEP LEARNING.” Date- 2024 Application No.: 202411081595 [**Published**]
2. Title- “ CAREER CHOICES AND AI-BASED COUNSELING ACCESSIBLE TO EVERY CHILD AT SECONDARY LEVEL ALONG WITH APTITUDE TESTS AND DETAILED CAREER PATHS” Date- 2024 Application No. : 202411070696 [**Published**]
3. Title- “AI-BASED IDENTIFICATION AND PREDICTION SYSTEM FOR FINANCIAL NEEDS BASED ON DEMOGRAPHY AND ECONOMIC CYCLE” Date- 2024 Application No.: 202411097429 [**Published**]
4. Title- “AI-BASED CHANGE DETECTION DUE TO HUMAN ACTIVITIES AND FEATURE EXTRACTION SYSTEM FOR REMOTE SENSING IMAGES USING TIME SERIES DATA” Date- 2024 Application No. 202411086347 [**Published**]
5. Title- “WATER AVAILABILITY-BASED CROP SELECTION AND ADVISORY SYSTEM FOR FARMERS USING MACHINE LEARNING” Date- 2024 Application No. 202411084349 [**Published**]
6. Title- “AI-BASED LIVESTOCK SANITIZATION SYSTEM” Date- 2024 Design Number 426304-001, Class 15-05: [**Design**]
7. Title- “ARTIFICIAL INTELLIGENCE BASED ANIMAL CLEANING DEVICE” Date- 2024 Design Number 424658-001, Class 30-99: [**Design**]
8. Title- “AI/ML- BASED SOLUTION TO IDENTIFY AND SOLVE DISEASE IN PLANTS/CROPS”, Date-29/12/2023 Application No.- 202311079919 [**Published**]
9. Title – “MACHINE LEARNING BASED AUDIO DEVICE FOR SMALL TEACHING INSTRUCTION ESSAGES” Date-03 Feb. 2023 Design No- 378581-001 [**Design Grant**]
10. Title- “A SYSTEM OF PLACEMENT ALGORITHM FOR BALANCED RESOURCE UTILIZATION IN CLOUD DATA CENTRES AND METHOD THEREOF”, Date- 02/12/2022. Application No.- 202211066898 [**Published**]
11. Title- “MACHINE LEARNING BASED CROP GROWTH MONITORING SYSTEM”, Date- 21 Sept. 2022. Application No.- 202211053921 [**Published**]
12. Title- “FACE DETECTION TECHNIQUES FOR SECURITY SURVEILLANCE UNDER OCCLUDED FACE IMAGES”, Date- 16 Sept., 2022. Application No- 202211051827. [**Published**]
13. Title- “AN APPROACH FOR CLASSIFICATION OF MALICIOUS HOST IN CLOUD ENVIRONMENT” on Date- 15 April 2022. Application No.-202231013211 [**Published**]
14. Title- “SYSTEM FOR UNMANNED INTELLIGENT PATROL ELECTRIC VEHICLES WITH MOBILE PAYMENT”. Date 15 February 2022, Application No.- 20 2022 100 691 [**German Innovation Grant**]
15. Title- “A DEVICE FOR REMOTELY IDENTIFYING OBJECT OR ACTIVITY USING IOT”. Date- 13 November, 2020 Application No.- 201931048224. [**Innovation Grant**]

Keynote / Session Chair / Reviewer/ Expert Lecture:

1. Invited as a resource person for One Week Administrative Development Program under the aegis of AIU- AADC Sangam University is organizing on **"Effective Governance in Higher Education System"**. Date- 30 April 2025.
2. Appointed as a Reviewer in 3rd International Conference on **"Advancement in Computation & Computer Technologies, 2025 (InCACCT-2025)"** that is going to be held on 17th and 18th April 2025 at Chandigarh University.
3. Appointed as a Reviewer in 3rd International Conference on 3rd International Conference on Disruptive Technologies (ICDT-2025) dated 7th & 8th March 2025, organized by Department of Computer Science & Engineering, G.L. Bajaj Institute of Technology and Management, Noida.
4. Appointed as an **Editorial Board Member** of American Journal of Computer Science and Technology.
5. Appointed as a Reviewer in 3rd International Conference on **Advanced Network Technologies and Intelligent Computing (ANTIC-2024)"** organized by Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi. Held on December 19-21, 2024.
6. Appointed as an Editorial Board Member of American Journal of Computer Science and Technology (AJCST) ISSN Online: 2640-012X; ISSN Print: 2640-0111 <http://www.sciencepublishinggroup.com/journal/ajcst> from July 15, 2024 to July 15, 2027
7. Appointed as a Reviewer in 2nd International Conference on **"Advancement in Computation & Computer Technologies, 2024 (InCACCT-2024)"** that is going to be held on 2nd and 3rd May 2024 at Chandigarh University.
8. Appointed as a Reviewer in 3rd International Conference on **Advanced Network Technologies and Intelligent Computing (ANTIC-2023)"** organized by Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi. Held on December 20-22, 2023.
9. Appointed as an Observer for the conduct of NEET(UG)-2024 exam.
10. Appointed as an Observer for the conduct of UGC NET June- 2024 exam.
11. Appointed as a Subject Expert for the two days Seminar on Elderly Issues **"Sliver Linings in Golden Years: Regional Seminar on Elderly Issues"** organized by CSED, Sangam University and funded by National Institute of Social Defense, Ministry of Social Justice and Empowerment, New Delhi on March 20-21, 2024.
12. Appointed as an examiner for the subject Introduction to IT System Lab at Government Polytechnics College, Bhilwara on 02,03 and 05th July 2024.
13. Appointed as an **Examiner** for paper 7A Enterprise Information Systems of Chartered Accountants Intermediate (New) Examination (ICAI).
14. Appointed as a Ph.D. thesis evaluator for **Sabarmati University, Gujrat**.
15. Appointed as a Guest faculty for the subject **Agriculture Informatics (AGI-211)** at **Government College of Agriculture, Bhilwara** for the session (2023-2024,2022-2023, 2020-2021).

16. Appointed as a Reviewer in National Conference on "**ROLE OF DIGITAL LEARNING SYSTEM IN SOCIAL, POLITICAL, ECONOMIC AND EDUCATIONAL DEVELOPMENT IN INDIA**" that is going to be held on 18th March 2023 in Acharya Shri Maha Pragya Institute of Excellence, Asind
17. Appointed as a Reviewer in 2nd International Conference on **Advanced Network Technologies and Intelligent Computing (ANTIC-2022)**" organized by Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi. Held on December 22-24, 2022.
18. Appointed as an expert for a talk on "**Life skill: Power Point**" at Acharya Shri Maha Pragya Institute of Excellence, Asind, Bhilwara on 24-12-2022.
19. Appointed as an expert on committee for empanelment for conducting personal interview of candidates at **MLV Textile & Engineering College** for the session (2024-2025, 2023-2024, 2021-22).
20. Appointed as a **Reviewer** in IGI Global Editorial Board for Book chapters.
21. Appointed as a **Reviewer** in International Conference on Advanced Network Technologies and Intelligent Computing 22-24 DECEMBER 2022, VARANASI, INDIA
22. Appointed as a **Sub-Reviewer** in Equin OCS Conference Proceedings Submission System.
23. Appointed as a **Session Co-chair** in the International Conference on Analytical & Interdisciplinary Research (ICAIR-2022) held on 6th to 8th October 2022.
24. Appointed as a **Session Coordinator in "Advanced Excel Tools & Add-ons"** in the Faculty Development Program on "ICT Tools & Effective Teaching Learning", from 26th July to 2nd August 2021, organized by Internal Quality Assurance Cell [IQAC], Sangam University, Bhilwara.
25. Appoint as a **Panel Advisor** in International Conference Analytical & Interdisciplinary Research (ICAIR-2021).

International Conference:

1. Paper presented on "VOTING BASED MODELS FOR ESTIMATION OF OBESITY LEVELS IN INDIVIDUALS", International coherence on Web Intelligence and Human Machine Interaction (ICWIHI 2025) organized by RP Sarathy Institute of Technology, Salem, Tamil Nadu, India on 8-9 April 2025.
2. Paper presented on "VOTING BASED MODELS FOR DETECTING ANOMALOUS CREDIT CARD TRANSACTION AND USES PATTERN FRAUD", International coherence on Web Intelligence and Human Machine Interaction (ICWIHI 2025) organized by RP Sarathy Institute of Technology, Salem, Tamil Nadu, India on 8-9 April 2025.
3. Paper Presented on "EFFICIENT TEST CASE PRIORITIZATION USING BAYESIAN NETWORKS: A PROBABILISTIC APPROACH FOR IMPROVED SOFTWARE TESTING", International Conference on Computing and Data Science (ICCDs-2024) Department of Computer Science & Engineering, Rajalakshmi Engineering College, Chennai, India [IEEE]

4. Paper present on “APPLICATIONS OF MACHINE LEARNING TO ADDRESS COMPLEX PROBLEM IN LIVESTOCK” in 3rd International conference for Innovation in Technology, Sai Vidya Institute of Technology Bengaluru, 2024. [IEEE]
5. Paper present on “VETERINARY MEDICAL RECORDS APPLICATION USING AWS”, 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), 979-8-3503-9523-5/24/\$31.00 ©2024 IEEE DOI 10.1109/ICMCSI61536.2024.00091. [IEEE]
6. Paper published on “DESIGN AND DEVELOPMENT OF IOT-BASED INTELLIGENT CATTLE SHED MANAGEMENT”, Springer Nature Singapore Pte Ltd. V.K. Gunjan and J.M.Zurada(eds.), Proceedings of 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications 2023. [Springer Nature]
7. Paper presented on “INTELLIGENT SYSTEM FOR CATTLE MONITORING: A SMART HOUSING FOR DAIRY ANIMAL USING IOT” in the International Conference on Paradigms of Communication, Computing and Data Science (PCCDS 2022), date- 05-07 July 2022. [Springer]
8. Paper presented on “DESIGN AND DEVELOPMENT OF IOT BASED INTELLIGENT CATTLE-SHED MANAGEMENT” in International Conference on Recent Trends in Machine Learning, IoT, Smart Cities & Applications (ICMISC 2022) Conference on 28-29 March 2022, <https://youtu.be/SYyf8QLyZnk>. [Springer Nature, Singapore Te Ltd 2023]
9. Paper presented on “DESIGN AND DEVELOPMENT OF IOT-BASED INTELLIGENT SOLUTIONS WITH BLOCKCHAIN FOR INDIAN FARMERS ON LIVESTOCK MANAGEMENT” in the Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India with DOI 10.4108/eai.14-5-2022.2320163. [SCI]
10. Paper present on “CLASSIFICATION OF MOTOR UNIT ACTION POTENTIAL USING TRANSFER LEARNING FOR THE DIAGNOSIS OF NEUROMUSCULAR DISEASES” in the 2022 8th International Conference on Smart Structures and Systems (ICSSS), with DOI- 10.1109/ICSSS54381.2022.9782209 Date- 1 June 2022. [IEEE]
11. Paper presented on “PERFORMANCE OF RESOURCE ALLOCATION ON CLOUD” in ICAIR-2022, 6-8 Oct. 2022. [International Conference]
12. Paper presented on “A SYSTEMATIC SURVEY ON MACHINE LEARNING BASED TEST CASE PRIORITIZATION” in ICAIR-2022, 6-8 Oct. 2022. [International Conference]
13. Paper presented on “DEEP LEARNING BASED BIOMETRIC IRIS RECOGNITION” in ICAIR-2022, 6-8 Oct. 2022. [International Conference]
14. Paper presented on “HYBRID FEATURES FINGERPRINT AND FINGER KNUCKLE BASED MULTIMODAL BIOMETRIC IDENTIFICATION USING RANDOM FOREST CLASSIFIER” in ICAIR-2022, 6-8 Oct. 2022. [International Conference]
15. Paper presented on “A SURVEY ON MANUAL TO SMART AND INTELLIGENT LIVESTOCK FARM MANAGEMENT METHODOLOGY USING IOT AND BLOCK CHAIN” in ICAIR-2022, 6-8 Oct. 2022. [International Conference]

16. Paper presented on “DESIGN OF AND IOT BASED SMART & WEARABLE SAFETY DEVICE TO ENSURE WOMEN SAFETY DURING SEXUAL ASSAULT & HARASSMENT” in ICAIR-2022, 6-8 Oct. 2022. [**International Conference**]
17. Paper presented on “ASSESSMENT OF THE WAREHOUSE FUNCTIONS TO IMPROVE PRODUCTIVITY” in ICAIR-2022, 6-8 Oct. 2022. [**International Conference**]
18. Paper presented on “LEAF DISEASE DETECTION BASED ON DEEP LEARNING METHODS” in ICAIR-2022, 6-8 Oct. 2022. [**International Conference**]
19. Paper presented on “CERTAIN INVESTIGATIONS OF GUAVA LEAF DISEASE MEASUREMENT IN NECROTIC AREAS WITH IMAGE PROCESSING TECHNIQUE” in the IEEE International conference on Sustainable computing and Data Communication Systems (ICSCDS-2022), Date-7-9 April 2022. ISBN – 978-1-6654-7884-7 [**IEEE**]
20. Paper presented on “ISSUES RELATED TO DATA SECURITY IN CLOUD ENVIRONMENT” in Environmental & climatic consequences: challenges & mitigation strategies, 21-22 Dec. 2019. [**International Conference**]
21. Paper presented on “ENHANCEMENT OF SMALL MEDIUM ENTERPRISES USING E-BRANDING” in the Annual international conference COPING CHANGE through Innovation and value creation for society, 23-23 Dec. 2017. [**International Conference**]
22. Presented a paper on “ENHANCING THE BEAUTY OF FRACTAL MODELS USING MIDPOINT ALGORITHM IN C LANGUAGE” in International Conference on Recent Trends of Computer Technology in Academia on 21-23 April 2012. [**International Conference**]

National Conference:

1. Presented paper on “NETWORK/SECURITY THREATS AND ISSUES RELATED TO CLOUD COMPUTING AND THEIR PROTECTION MEASURES” in Recent innovation & trends in engineering and technologies, 24-25 Dec. 2018.
2. Presented a paper on “ENHANCING THE BEAUTY OF FRACTAL MODELS USING MIDPOINT ALGORITHM IN JAVA” in International Conference on Recent Trends of Computer Technology in Academia on 21-23 April 2012.
3. Presented a paper on “WIND ENERGY SYSTEM PRODUCTION USING AI” in National Conference on Emerging Technologies in Renewable Energy & Electrical Engineering on 25-26 Feb 2012.

Seminar/Workshops:

1. Participated in one-day online workshop titled Deep learning in ecological Studies conducted by this institute on 27-11-2024. (Concerned IIRS Nodal Centre- SANGAM UNIVERSITY, BHILWARA).
2. Participated in one-week workshop on “Skill-Up: Excelling as a Research Supervisor” organized by research and development cell held at Sangam University Bhilwara from 06-10 May 2024.

3. Participated in International workshop on “**Navigating Tomorrow with AI, ML, and Data Science for Intelligent Solutions**” organized by Regional College for Education Research & Technology, Jaipur on 19-23 March 2024.
4. Participated in four-month workshop on “**Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System**”.
5. Participated in ten days Skill Enhancement Course on "**Data Analytics Using Machine Learning**", organized by Department of Computer Science and Applications (DCSA), Punjab University, Chandigarh, India under the Aegis of RUSA, Ministry of Education, Govt. of India. from October 31 2023 to November 10 2023
6. Participated in the workshop on “**Research Ethics, Tools & Altmetrics**” organized by IQAC & Research Cell, Sangam University on 27 July 2023.
7. Participated in NAAC sponsored two-day National Workshop on “**Challenges before HEIs in remote areas for achieving quality improvement through Assessment & Accreditation Process**”, organized by IQAC, Sangam University on 24-25 Nov. 2022.
8. Participated in 5 days Global E-FDP on “**Unleashing Research Potential: Global Trends and Practices**” Organized by Office of International Relations, Galgotias University, Greater Noida, Uttar Pradesh held from March 7-11, 2022.
9. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "**IoT with Smart City**" from 13/09/2021 to 17/09/2021 at Government Polytechnic Daman.
10. Participated in two days “**Workshop on Understanding and Filing Intellectual Property Rights**” with Dr. Rahul Taneja, Scientist, Department of Science and Technology, Government of Haryana as Mentor organized by Scroll well EduTech LLP on February 17 - 18, 2021.
11. Participated in “**The age of Block Chain**”, a global knowledge exchange webinar on Block Chain Technology conducted by India Block chain Alliance in association with “Underline” on 16 Dec. 2021.
12. Participated in one-week virtual global summit on “**Artificial Intelligence: Responsible AI for Social Empowerment (RAISE2020)**” organized by MyGov, Ministry of Electronics & IT, Government of India on from 5th Oct. to 9th Oct. 2020.
13. Participated in **IPR**, Seminar conducted by Registered Patent Consultant at Sangam University, Bhilwara on 18 Jan. 2020.
14. Successfully completed the two weeks Short Term Training Program through ICT mode on “**Problem Based Learning**” organized by IIT Teachers’ Training and Research Kolkata on 20-31 May 2019.
15. Participated in one-week National Workshop Popularization of **Remote Sensing Based Maps & Geospatial Information** in Aug-2017
16. Participated 3 days internship on **cloud computing/salesforce** at iBirds College Ajmer in June 2015.
17. Participated in two-week ISTE Workshop on “**Database Management Systems**” from 21st May 2013 to 31st May 2013
18. Participated in one-day workshop on” **Android & it’s Application**” conducted by CETPA InfoTech Pvt. Ltd. on 16th May 2013 at Institute of Technology & Management.

19. Participated in two days ISTE Workshop on “**Aakash for Education**” from 10th Nov 2012 to 11th Nov 2012
20. Participated in National Workshop on A-View organized by NME-ICT(MHRD) on 30th October 2012.
21. Participated in **SCILAB** Workshop organized at Institute of Technology & Management, Bhilwara on 27th April 2012 offered by IIT, Bombay.
22. Participated in **LINUX** Workshop organized at Institute of Technology & Management, Bhilwara on 19th April 2012 offered by IIT, Bombay.
23. Participated in **PYTHON** Workshop organized at Institute of Technology & Management, Bhilwara on 16th April 2012 offered by IIT, Bombay.
24. Participated in **LATEX** Workshop organized at Institute of Technology & Management, Bhilwara on 10th April 2012 offered by IIT, Bombay.
25. Participated in **PHP & MYSQL** Workshop organized at Institute of Technology & Management, Bhilwara on 4th April 2012 offered by IIT, Bombay.
26. Participated in Hands-on Training/ Workshop organized by Sofcon India Pvt. Ltd. on 9th Nov. 2011.
27. Participated in two weeks ISTE main Workshop on “**Control Systems**” from 2nd December 2014 to 12th December 2014.
28. Participated in two weeks ISTE main Workshop on “**Cyber Security**” from 10th July 2014 to 20th July 2014.
29. Participated in two weeks ISTE main Workshop on “**Computer Networking**” from 30th June 2014 to 5th July 2014.
30. Participated in two weeks ISTE Main Workshop on “**Computer Programming**” from 16th June 2014 to 21st June 2014.
31. Organized one-day workshop on “**Android & it's Application**” conducted by CETPA InfoTech Pvt. Ltd. On 20th Feb 2013 at Sangam University, Bhilwara.
32. Two-week ISTE WORKSHOP on Engineering **Thermodynamics** from 11th Dec 2012 to 21st Dec 2012.
33. Two-week ISTE WORKSHOP on Introduction to **Research Methodologies** from 25th June 2012 to 4th July 2012.

Faculty Development Program:

1. Participated in 2nd Five days International Faculty Development Program on “**NEXT-GEN AI AND DATA ANALYTICS: STRATEGIES FOR THE FUTURE**”, organized by Department of Computer Engineering, Astana IT University, Astana, Kazakhstan from 31 March to 4 April 2025.
2. Participated in “**NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME UNDER MALAVIYA MISSION TEACHER TRAINING PROGRAMME (MM-TTP) OF UNIVERSITY GRANTS COMMISSION (UGC)**”, organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) from 20-02-2025 to 28-02-2025.
3. Participated in One Week International Faculty Development Program on “**CUTTING-EDGE TECHNOLOGIES IN COMPUTER SCIENCE**” organized by Department of Computer Science &

Engineering & (AI & ML) Easwari Engineering College, Ramapuram Chennai during 23-09-2024 to 29-09-2024.

4. Participated in five days' International - Faculty Development Programme (FDP) on “**ETHICAL ISSUES IN RESEARCH WRITING**” Organized by Regional College for Education Research and Technology, Jaipur (a unit of deepshikha group of colleges) and University of Technology, Jaipur in association with Scientific and Humanities Research Society, Jaipur, Rajasthan, India on Sept., 11-16 2024.
5. Participated in 10 Hours International Faculty Development Program on “**MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE**” organized by Pimpri Chinchwad College of Engineering and Research, Ravet, Pune – Maharashtra, Sri Venkateswara Degree College, Kadapa - Andhra Pradesh, SJB Institute of Technology, Bangalore – Karnataka and Sri Indu PG College, Hyderabad – Telangana in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 12th Aug to 19th Aug 2024.
6. Participated in One Week Faculty Development Program on “**Cyber Security and Analysis**” organized by Department of AI & DS, Global Institute of Technology, Jaipur on 08-13 Jan. 2024.
7. Participated in two-week Faculty Development Program on **Machine Learning** from 8th to 19th Dec. 2020 conducted by E & ICT Academy, IIT Kanpur.
8. Participated in ten-days online skill development Program on “**Social Media Digital Marketing**” Sponsored by Rashtriya Uchchatr Shiksha Abhiyan (RUSA) project title “Skill Development on Digital Marketing” organized by School of Commerce, Bharathiar University held from 2 Sep. to 12 Sep. 2020.
9. Attend one week faculty development program on “**IoT with Smart City**”, organized by AICTE Training and Learning (ATAL) Academy, at Government Polytechnic Daman, on 13-17 Sep 2021.
10. Attend one week faculty development program on “**ICT Tools for Effective Teaching Learning**”, organized by IQAC, Sangam University, on 26 July to 2nd August 2021
11. Attend one week faculty development program on “**Recent Trends in Cyber Security and Machine Intelligence**”, organized by Inderprastha Engineering College, Ghaziabad (UP), on 31st JAN., 04 FEB. 2022.
12. Participated in AICTE recognized short term course on “**Free Software and Resource for Technical Education through ICT**” conducted by Department CSE, NITTER, Chandigarh. From 21-25 March 2022.
13. Attended five Days Global E-FDP on “**Unleashing Research Potential: Global Trends and Practices**” organized by Office of International Relations, Galgotias University, Greater Noida, Uttar Pradesh, on 7-11 March 2022.
14. Participated in one-week long faculty Development Program- “**Emerging trends in Data Analytics 2022**” from February 17th to February., 21st 2022 organized by Amity Institute of Information Technology.
15. Participated in One Week On-Line Faculty Development Program on “**Recent Trends in Cyber Security and Machine Intelligence**” (CSMI-2022) organized by Inderprastha Engineering College, Ghaziabad (U.P.) from 31st January to 4th February 2022.

16. Participated in the Faculty Development Program on “**ICT Tools for Effective Teaching Learning**”, from 26th July to 2nd August 2021, organized by Internal Quality Assurance Cell [IQAC], Sangam University.
17. Attend two days faculty development program on “**How to develop Project Proposal**”, organized by IQAC Cell and Research & Development Cell, Sangam University, on 20-21 Oct. 2022.
18. Attend one-week Online faculty development program on “**Machine Learning: Concepts and Applications**”, organized by Department of Computer Science & IT, Kathua campus, University of Jammu during March 14-20,2023.
19. Participated in two days faculty Development Program on “**Benchmarking Quality Enhancement Initiatives through Innovative Practices**” organized by IQAC, Sangam University on 12-13 July 2022.
20. Participated in faculty Development Program on “**Outcome Based Education & Its Implementations**” organized by IQAC, Sangam University, Bhilwara on 12 & 13 April 2022.
21. Participated in Faculty Development Program, organized by IQAC cell Sangam University, Bhilwara on 20-24 Dec. 2021.
22. Participated in one-week AICTE Recognized Faculty Development Program on “**Internet of Things**” “Conducted by Computer Science and Engineering Department from 15/04/2020 to 19/04/2020 at NITTTR, Chandigarh.
23. Attend two-week faculty development program on “**Machine Learning**”, organized by E& ICT Academy, IIT Kanpur, on 8-19 Dec. 2020.
24. Attend one week faculty development program on “**Python**”, organized by E& ICT Academy, IIT Kanpur, on 24-29 May 2021.
25. Attend one week faculty development program on “**Competitive Coding**”, organized by E& ICT Academy, IIT Kanpur, on 07-12 June 2021.
26. Attend one week faculty development program on “**Cloud Computing**”, organized by E & ICT Academy, IIT Kanpur, on 10-15 May 2021.
27. Attend one week faculty development program on “**Advance Excel with Data Visualization**”, organized by E& ICT Academy, IIT Kanpur, on 21-27 Dec. 2020.
28. Attend one week faculty development program on “**App Development with Android**”, organized by E& ICT Academy, IIT Kanpur, on 07-12 June 2021.
29. Participated in faculty development program on “**Teaching Skills and Research Methodology**” organized on 5-7 Jan. 2017 at Sangam University, Bhilwara.

Appreciation:

1. Receives certificate of appreciation in International Conference on “**Recent Trends and Innovations in Applied Sciences for Sustainable Development of Environment (RTIAS-24)**” on 22-24 Jan. 2024.
2. Received certificate form **Smart India Hackathon 2023** for exceptional contribution as a college SPOC in Smart India Hackathon, 2023.

3. Received certificate of Appreciation in three days SERB supported International Conference on **Recent Trends and Innovations in Applied Sciences for Sustainable Development of Environment (RTIAS-24)**
4. Received appreciation in the field of **Research for a Design Grant patent** by Research Department, Sangam University Bhilwara.
5. Received appreciation in the field of **Research for a Research Paper & Book Chapter** by Research Department, Sangam University Bhilwara.
6. Received appreciation from NXT Wave for support in organizing the AI workshop at our university.
7. Received Appreciation from **Institute for Academic Excellence (IAE), Hyderabad** in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana on “Curriculum Framework 2023”, held on 17-18 March 2023.
8. Received Appreciation for “**Exceptional contribution as a SPOC ion Smart India Hackathon, 2023**” from Ministry of Education, Government of India.
9. Received Appreciation for “**Exceptional contribution as a SPOC ion Smart India Hackathon, 2022**” from Ministry of Education, Government of India.
10. Winner of **Smart India Hackathon 2022**.
11. Received Appreciation certificate for organizing first round of **SMART HACKS 2021** at Sangam University E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY & IIT Kanpur) in March 2022,
12. Received appreciation from **E & ICT Academy, IIT Kanpur for conducting first round of SMART HACKS 2021** at Sangam University on 18 Feb. 2022.
13. Received Appreciation from the **Board of Management Sangam University for the contribution in academic and overall development of the university** in the session 2014-15.
14. Received Appreciation from the **Board of Management Sangam University for the contribution in academic and overall development of the university** in the session 2013-14.
15. Training In charge of **Summer Training** for BCA (2nd & 3rd) year students organized from 27/06/2012 to 27/07/2012 at Prestige College of IT & Management, Bhilwara
16. Member of **editorial committee of SIERT, Udaipur** for the development of teaching material in Computer Technology for the course of B.S.T.C first year.
17. Received Appreciation from **Maheshwari Professional Forum** on 2 Oct 2021.
18. Received **Best Paper Award** in the ICAIR-2022 conference for the paper entitled “A Survey on Manual to Smart and Intelligent Livestock Farm Management Methodology using IoT and Block Chain” during 6-8 Oct. 2022.
19. Appointed as a paper setter for M.Sc. (CS/IT) in MLSU University, Udaipur in year 2013
20. Appointed as a paper setter for BCA, M.Sc. and MCA in JRNRV University, Udaipur in year 2011.
21. I was evaluator in JRNRV University, Udaipur for BCA in year 2011
22. I was evaluator in Mewar University, Chittorgarh for BCA and MCA in year 2011-12
23. I was evaluator in Swift College, Bhilwara for BCA and BSc-IT in year 2012-13

Major Responsibilities Undertaken:

- Member of NAAC committee at university level.
- NAAC Coordinator of Department CSE o Student Development Officer of the CSE department
- SPOC person for AWS Academy, SWAYAM, NPTEL, CSI, Red hat Academy, IIT Kanpur, IIT Bombay, CISCO, Grras Solution, Global IT Providers.
- Play the important role for every department level activity as a committee's member to planning and organizing guest lecture, webinar, workshop and conference.
- Test Center Admin for online examinations.
- Coordinator of IT Infrastructure, Website, ERP, Mobile App.
- Member of IQAC cell, NIRF Cell, Research Development Cell, Academic Improvement, Academic Monitoring, Admission / Marketing Committee.
- In-charge & coordinator for Digital Marketing of university.
- Co-Convener of La-Union 2022 (inter college confluence of Techno Cultural and Literary Fest of Sangam University, Bhilwara).
- Coordinator for ERP Implementation.

Dr. Vikas Somani

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Date:**Place: BHILWARA**