# CURRICULUM VITAE

**Dr. VIKAS SOMANI**
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**Name- Dr. Vikas Somani (Ph.D., M.Tech., MCA, BCA)**

**Designation- Associate Professor, Assistant Dean, School of Engineering & Technology,
           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**

**Teaching Experience:**

1. Associate 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 with "A" grade.*

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*

**Patent**

1. Title – "MACHINE LEARNING BASED AUDIO DEVICE FOR SMALL TEACHING INSTRUCTION ESSAGES" Design patent Date-03 Feb., 2023 Design No- 378581-001

2. Title- "A SYSTEM OF PLACEMENT ALGORITHM FOR BALANCED RESOURCE UTILIZATION IN CLOUD DATA CENTRES AND METHOD THEREOF" published on Date- 02/12/2022. Application No.- 202211066898

3. Title- "MACHINE LEARNING BASED CROP GROWTH MONITORING SYSTEM" published on Date- 21 Sept., 2022. Application No.- 202211053921

4. Title- "FACE DETECTION TECHNIQUES FOR SECURITY SURVEILLANCE UNDER OCCLUDED FACE IMAGES" published on Date- 16 Sept., 2022. Application No- 202211051827A.

5. Title- "AN APPROACH FOR CLASSIFICATION OF MALICIOUS HOST IN CLOUD ENVIRONMENT" on Date- 15 April 2022. Application No.-202231013211

6. Title- "SYSTEM FOR UNMANNED INTELLIGENT PATROL ELECTRIC VEHICLES WITH MOBILE PAYMENT". **Granted** on – 15 February 2022, Application No.- 20 2022 100 691

7. Title- "A DEVICE FOR REMOTELY IDENTIFYING OBJECT OR ACTIVITY USING IOT". **Granted** on 13 November, 2020 Application No.- 201931048224 and Publication Date- 25/11/2019.

**Research Scholar**

| 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 |

**Publications**

1. Paper published on "SOFTWARE TOOL TO PERFORM METAMORPHIC TESTING ON RESTFUL WEB APIS", The Journal of Oriental Research Madras ISSN: 0022-3301 |, NOV. 2022.

2. Paper published on "METAMORPHIC TESTING: TESTING THE UNTESTABLE IN WEB API", Shodhasamhita: Journal of Fundamental & Comparative Research, Vol. VIII, No. 1(XXXV): 2022, ISSN: 2277- 7067 UGC Care Group, pp 61-69.

3. 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".

4. Paper published on "A MULTI-BIOMETRIC RECOGNITION SYSTEM BASED ON RANDOM FOREST CLASSIFIER" in the ADVANCED ENGINEERING SCIENCE ISSN: 2096-3246 VOLUME 54, ISSUE 02, NOVEMBER, 2022.

5. Paper published on "HYBRID FEATURES-BASED MULTIMODAL BIOMETRIC IDENTIFICATION USING RANDOM FOREST CLASSIFIER AND CONVOLUTIONAL NEURAL NETWORK" in the NEUROQUANTOLOGY, OCTOBER 2022, VOLUME 20, ISSUE 12, PAGE 513-521| DOI: 10.14704/NQ.2022.20.12. NQ77035. [1.576]

6. Paper presented on "PREDICTING ACADEMIC SUCCESS IN HIGHER EDUCATION: BEST PRACTICES" in the International Conference on Analytical & Interdisciplinary Research (ICAIR-2022) on 6-8th October 2022.

7. Paper published on "EARLY-STAGE PREDICTION & DETECTION OF GUAVA LEAVES DISEASE USING GENETIC ALGORITHM" in the International Journal of Early Childhood Special Education (INT-JECS). DOI:10.9756/INTJECSE/V14I7.52 ISSN: 1308-5581 Vol 14, Issue 07 2022 [0.755]

8. 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 [0.755]

9. One book published in Scholar's Press with ISBN- 978-613-8-83831-9. Book title is "DATA SECURITY ENVIRONMENT IN CLOUD COMPUTING". Published Date – August 2022.

10. 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 and publisher- Springer Nature, Date- 26 July 2022.

11. 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.

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. [7.193]

13. 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.

14. Paper published 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.

15. 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

16. 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.

17. Paper published on "CLOUD COMPUTING TASK SCHEDULING MODEL BASED ON IMPROVED OPTIMIZATION ALGORITHM" in the UGC Care Group-I Journal ISSN: 0378-4568 January-June 2022 with Impact Factor [6.20].

18. 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.

19. Paper submitted to ICICA'21 (International Conference on Innovative Computing and Applications) "Design and Development of IoT based Intelligent Cattle Shed Management" held on 26-27 Nov., 2021.

20. 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

21. 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 on May/June 2020 ISSN: 0193-4120 Page No. 30810- 30815. [0.427]

22. Book chapter submitted to Hybrid Swarm Intelligent Algorithms in Healthcare with title "ANALYTICS AND BIG DATA IN HEALTHCARE - A INTRODUCTION".

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 [0.27]

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 [0.27]

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; IC Value: 45.98; SJ Volume 6 Issue III, March 2018 [7.124]

26. Paper published on "SOCIAL MEDIA SECURITY RISKS, CYBER THREATS AND RISKS PREVENTION AND MITIGATION TECHNIQUES" in the IJSART - Volume 4 Issue 4 – APRIL 2018 ISSN [ONLINE]: 2395-1052 April 2018 [6.224]

27. Paper published on "ENHANCEMENT OF SMALL MIDDLE ENTERPRISES USING SOCIAL MEDIA MARKETING" in the in International Journal of Innovations in Engineering & Technology IJIET Journal volume 2 Issue 2 – April 2013 ISSN : 2319-1058. [0.672]

28. 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, Nov 2013. [2.115]

29. Paper published on "ENHANCEMENT OF SMALL MEDIUM ENTERPRISES USING E-BRANDING" in the in International Journal of Computer Science and Systems ISSN 2249-8222, Feb 2013. [3.802]

30. Presented a Paper on "ENHANCING SMALL MIDDLE ENTERPRISES USING E-BRANDING" in International Seminar on Neoteric Trends in Functional Management on 23-24 March 2013.

31. Presented a paper on "Study and Analysis on E-Banking" in International Conference on Global Business Research on 20-22 September 2012.

32. 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.

33. 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.

34. 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.

**Short Term Course attended:**

1. 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.

2. Participated in two-week Faculty Development Program on Machine Learning from 8th Dec., to 19th Dec., 2020 conducted by E & ICT Academy, IIT Kanpur.

3. Participated in ten-days online skill development Programme 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.

4. Participated in four-month workshop on "Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System".

5. Google Digital Unlocked Online Marketing Fundamentals

6. Participated in two weeks ISTE main Workshop on "Control Systems" from 2nd December 2014 to 12th December 2014.

7. Participated in two weeks ISTE main Workshop on "Cyber Security" from 10th July2014 to 20th July 2014.

8. Participated in two weeks ISTE main Workshop on "Computer Networking" from 30th June2014 to 5th July 2014.

9. Participated in two weeks ISTE Main Workshop on "Computer Programming" from 16th June 2014 to 21stJune 2014.

10. Two week ISTE WORKSHOP on Engineering Thermodynamics from 11ᵗʰDec 2012 to 21ˢᵗDec 2012.

11. Two week ISTE WORKSHOP on Introduction to Research Methodologies from 25ᵗʰJune 2012 to 4ᵗʰJuly 2012.

## Workshops Attended and organized

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. Participated in 2 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 Scrollwell EduTech LLP on February 17 - 18, 2021.

7. Participated in one-week Faculty Development Program on Advanced Excel with Data Visualization from 21ˢᵗ Dec., to 27 Dec., 2020 conducted by E & ICT Academy, IIT Kanpur.

8. 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 Indiaon from 5th Oct., to 9th Oct., 2020.

9. Participated in one-week AICTE Recognized Faculty Development Programme on Internet of Things Conducted by Computer Science and Engineering Department from 15/04/2020 to 19/04/2020 at NITTTR, Chandigarh.

10. Participated in one-week National Workshop Popularization of Remote Sensing Based Maps & Geospatial Information in Aug-2017

11. Participated in two week ISTE Workshop on "Database Management Systems" from 21ˢᵗ May 2013 to 31ˢᵗ May 2013

12. 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.

13. Participated in two days ISTE Workshop on "Aakash for Education" from 10ᵗʰ Nov 2012 to 11ᵗʰNov 2012

14. Participated in National Workshop on A-View organized by NME-ICT(MHRD) on 30ᵗʰOctober2012.

15. Participated in LaTex Faculty Development Program Workshop organized at Institute of Technology & Management, Bhilwara on 8-9May 2012 offered by IIT, Bombay.

16. Participated in SCILAB Workshop organized at Institute of Technology & Management, Bhilwara on 27th April 2012 offered by IIT, Bombay.

17. Participated in LINUX Workshop organized at Institute of Technology & Management, Bhilwara on 19th April 2012 offered by IIT, Bombay.

18. Participated in PYTHON Workshop organized at Institute of Technology & Management, Bhilwara on 16th April 2012 offered by IIT, Bombay.

19. Participated in LATEX Workshop organized at Institute of Technology & Management, Bhilwara on 10th April 2012 offered by IIT, Bombay.

20. Participated in PHP & MYSQL Workshop organized at Institute of Technology & Management, Bhilwara on 4th April 2012 offered by IIT, Bombay.

21. Participated in Hands-on Training/ Workshop organized by Sofcon India Pvt. Ltd. on 9thNov. 2011.

## Keynote/ Session Chair/Expert Lecture:

1. 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 Mahapragya Institute of Excellence, Asind

2. Appointed as a Reviewer in IGI Global Editorial Board for Book chapters.

3. Appointed as a Reviewer in International Conference on Advanced Network Technologies and Intelligent Computing 22-24 DECEMBER, 2022, VARANASI, INDIA

4. Appointed as a Sub-Reviewer in EquinOCS Conference Proceedings Submission System.

5. Appointed as a Session Co chair in the International Conference on Analytical & Interdisciplinary Research (ICAIR-2022) held on 6th to 8th October, 2022.

6. 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,

7. 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.

8. Appoint as a Panel Advisor in International Conference Analytical & Interdisciplinary Research (ICAIR-2021).

9. Organized one-day workshop on" Android & it's Application" conducted by CETPA InfoTech Pvt. Ltd. On 20th Feb 2013 at Sangam University, Bhilwara.

10. Training Incharge of Summer Training for BCA (2nd& 3rd ) year students organized from 27/06/212 to 27/07/2012 at Prestige College of IT & Management, Bhilwara

11. 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.

12. Other than above workshops I was paper setter for M.Sc.(CS/IT) in MLSU University, Udaipur in year 2013

13. Other than above workshops I was paper setter for BCA, MSc and MCA in JRNRV University, Udaipur in year 2011.
14. I was evaluator in JRNRV University, Udaipur for BCA in year 2011
15. I was evaluator in Mewar University, Chittorgarh for BCA and MCA in year 2011-12
16. 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 NPTEL, CSI, Redhat Academy, IIT Kanpur, IIT Bombay, CISCO.
- Play the important role for every department level activity as a committee's member to planning and organizing guest lecture, webinar, workshop and conference.
- TCA for online examinations.
- Coordinator of IT Infrastructure, Website Development, ERP Development & Implementation,
- 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.

## Research Interest:

1. Artificial Intelligence
2. Cloud Computing
3. Internet of Things
4. Digital Marketing
5. Block chain
6. Machine Learning

**Dr. Vikas Somani**

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vikasomi@gmail.com

**Date:**

**Place:   BHILWARA**