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Associate Professor

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Date of Birth June 01, 1974.

Academic Qualifications: B.Sc., MCA, NET, Ph.D.

Orientation / Refresher Courses Attended:

- **Refresher Course in Computer Science**, Department of Computer Science, Shivaji University, Kolhapur, 16 November – 6th December, 2004.
- One week **Refresher Course** on LAMP (Linux, Apache, MySql, Perl) Programming in Open Source Context, D.K.T.E., Society 's Textile & Engineering Institute, Ichalkaranji, 7– 12 July 2008, Sponsored by Ministry of Information Technology, Govt. of India.
- UGC-Sponsored **Orientation Programme** completed at Academic Staff College, Sant Gadge Baba Amravati University, Amravati during 27-10-2014 to 22-11-2014 with A grade.
- Successfully completed the ARPIT course for Career Advancement Scheme (CAS) promotion **Innovation and Best Practices in Educational Skills** with a “D” Grade in the proctored examination held on 30 March, 2019 offered by Sant Gadge Baba Amravati University, Amravati.
- Successfully completed the ARPIT course for Career Advancement Scheme (CAS) promotion **Skills for New Educational Architecture** with a “D” Grade in the proctored examination held on 16 February, 2020 offered by Sant Gadge Baba Amravati University, Amravati.
- Successfully completed the Refresher Course on **MOOCs, E-Content Development & Open Educational Resources** with a “D” Grade in the proctored examination held on 16 February, 2020 offered by Sant Gadge Baba Amravati University, Amravati.

- Successfully completed Refresher Course in MOOCs, E-Content Development & Open Educational Resources with A Grade during 18 May, 2022 to 31 May, 2022 at Amravati University, Amravati.

Areas of Research: Data Mining, Web mining, ICT, Image Processing, Algorithms, Cloud computing, Database Management System, Artificial Intelligence

Awards and Honors:

Best paper award for outstanding paper entitles “**Graphical Key Cryptography for Cryptography with ANSI Characters**” which was presented in the National Conference on Recent Advances in Information Technology organized by Department of Computer Science and Computer Applications, Solapur University, Solapur on 15-16 February, 2014.

Patent Filled:

- Invention title: Artificial Neural Network Based Method for Predicting the Efficiency of DYE synthesized Solar Cells.
 Publication Number: 06/2020
 Publication Date: 07/02/2020
 Application Number: 202021004256
 Application Filling Date: 31/01/2020
 Field of Invention: Computer Science

Books published:

- **Web Mining: A Synergic Approach Resorting to Classifications and Clustering**
 Authors: V S Kumbhar, K S Oza, R K Kamat
 Published on 11 November, 2016, Ebook Price Rs. 5147.44/-, Total Pages: 204
 Publisher: River Publishers Series in Information Science and Technology, The Netherland
 ISBN: 978-87-93379-83-1 (Hardback)
 978-87-93379-84-8 (Ebook)

Chapters in Books, published by National and International level publishers, with ISBN/ISSN number as approved by the University and posted on its website.

Sr. No.	Title with page nos.	Type of Book & Authorship	Publisher & ISSN/ ISBN No.	Whether peer reviewed
1	A Comparative Analysis of Using Indexed View to Improve the Performance of SQL PP 6-13	Recent Developments in Engineering Research Vol. 1 K G Kharade, S K Kharade, V S Kumbhar, R K Kamat	Book Publisher International Print ISBN: 978-93-90149-67-4, eBook ISBN: 978-93-90149-19-3	Yes

2	Evaluation of Arithmetic Searches over String Searches for Better Performance PP 474-479	Theory and Practice of Mathematics and Computer Science Vol. 1 S K Kharade, K G Kharade, V S Kumbhar, R K Kamat	Book Publisher International Print ISBN: 978-93-90149-72-8, eBook ISBN: 978-93-90149-22-3	Yes
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Papers published in National / International Journals:

Sr. no	Title with page numbers (Authors)	Name of the Journal	Journal ISSN/ISBN No.
2013-14			
1	Graphical Key Cryptography for Cryptography with ANSI Characters, PP.133-136 (V S Kumbhar, A M Gavali)	International Journal of Research in Computer Science and Information Technology(IJRCLSIT) Vol-2 Issue.2 Febreuary,2014	ISSN: 2319-5010
2014-15			
2	Educational Web Mining Using Weka, PP. 128-131. (V.S. Kumbhar, K.S.Oza)	International Journal of Engineering Trends and Technology (IJETT) Volume 26 Number 3-August 2015	ISSN: 2231-5381
3	Exploring Web Mining for Auditing Social Networking: A Clustering Approach PP. 257-261 (V.S.Kumbhar, K.S.Oza, R.K.Kamat)	International Journal of Computer Science and Communication Networks (IJCSN) – Volume 5 Issue 4 (August-September) 2015	ISSN: 2249-5789
2015-16			
4	Zika Virus Awareness: A Text Mining Approach PP. 1942-1947 (V. S. Kumbhar, K S Oza, R K Kamat)	Research Journal of Pharmaceutical, Biological and Chemical Sciences November-December-2016, 7(6)	ISSN: 0975-8585
5	Prediction of Stock Market Share Value using Machine Learning Technique (Dipak R. Kawade, V.S.Kumbhar , K. S. Oza) Page No.375-378	Bionano Frontier vol. 9 issue 3 December, 2016	ISSN 2320-9593 0974-0678
2016-17			
6	A Comparative Study of Traditional Server and Azure Server PP 329-331. (V.S.Kumbhar, K.G.Kharade, S.K.Kharade)	Journal of Advances in Science and Technology, Vol. 13, Issue No. 1, (Special Issue) March-2017	ISSN 2230-9659
2017-18			

7	Issues and Challenges of Women Empowerment in India PP 558-560 (V S Kumbhar)	Aayushi International Interdisciplinary Research Journal (Special Issue) Impact Factor 4.574	ISSN 2349-638X
2018-19			
8	Impact of Digital India On Various Sectors PP 37-40 (V.S.Kumbhar S.K.Kharade, K.G.Kharade)	Indian Journal of Innovation in Management and Excellence in Research IJIMER Vol. 02, January, 2018	ISBN-978-81-926976-7-3
2019-20			
9	Setting Barrier to Removable Drive through Password Protection for Data Security PP 19-23. (V.S.Kumbhar, K.G.Kharade, S.K.Kharade, R. K. Kamat)	OUR HERITAGE	ISSN: 0474-9030 Vol-68, Special Issue-27 (Feb. 2020)
10	Website Analysis: Search Engine Optimization Approach V. S. Kumbhar, Kavita S. Oza Pg. no. 634–639	Communications in Computer and Information Science, 1037, Communications in Computer and Information Science 1037 Springer Nature Singapore Pte Ltd. 2019	ISSN no. 1865-0937 ISBN no. 978-981 9187-3
2020-21			
11	Impact of Outcome-Based Education in Indian Universities V. S. Kumbhar Pg. no. 16938-16943	Solid State Technology Vol. No. 63, Issue.6, 2020	ISSN: 0038-111X
2021-22			
12	Artificial Intelligence and Personalized Learning M. K. Patkar, V. S. Kumbhar PP 2411-2416	Turkish Journal of Computer and Mathematics Education Volume 12 No. 13 (2021)	e-ISSN 1309-4653
13	Artificial Intelligence In Linguistics - A Review Article M. K. Patkar, V. S. Kumbhar PP 7-10	International Journal of Research and Analytical Reviews Volume 8, Issue 2	e-ISSN: 2348-1269, p-ISSN: 2349-5138
14	EyePhone Technology: A Smart Wearable Device K G Kharade, S K Kharade, S R Ghatage, V S Kumbhar, T Nandana Ravishankar, K Vengatesan PP 474-479	Recent Trends in Intensive Computing This article is published online with Open Access by IOS Press and distributed under the terms of the Creative Commons Attribution Non-Commercial License 4.0 (CC BY-NC 4.0). doi:10.3233/APC210231	
15	The Ramification of Interesting	Aayushi International Interdisciplinary	ISSN:

	Data Science into Commercial Ventures M S Sawant, K G Kharade, S K Kharade, V S Kumbhar, S V Katkar, R K Kamat PP 141-146	Research Journal Special Issue No. 107 on Global Strategies For A Resilient And Sustainable Post Pandemic World Towards A Better Future, March-2022	2349-638X Impact Factor: 7.331
16	Impact of Artificial Intelligence on Next-generation Startups A R Swami, V S Kumbhar PP 485-494	International Research Journal of Humanities and Interdisciplinary Studies	ISSN: 2582-8568 Impact Factor: 5.828

Papers Published in National / International Conferences:

Sr. No.	Title with page nos. (Authors)	Conference Details	Conference Proceedings ISBN No.
2012-13			
International Conference			
1	Library: A Cloud Computing Approach PP (Kumbhar V. S., Palampalle A. S, Oza K. S)	58th International ILA conference on "Next Generation Libraries: New insights and Universal Access to Knowledge (ILANGL-2013), Dharwad. 24-27 Feb, 2013	
National Conference			
2	A New approach to Graphical Cryptography PP (V. S. Kumbhar, Ajit M. Gavali)	National Conference on Advances in Computing, North Maharashtra University, Jalgaon. 5 th & 6 th March, 2013	
3	Result analysis: A Data mining approach PP (V.S.Kumbhar, K.S.Oza, P.N.Vasambekar)	UGC-SAP, DST-PURSE sponsored Interdisciplinary National Conference on 'Information and Communication Technology for Education (ICTE- 2013)' Shivaji University, Kolhapur. March 4-5, 2013	
2013-14			
International Conference			
4	A Novel Technique in Graphical Cryptography for Generating Special Characters along with	International Conference on Recent Trends in Computer Applications, ICRTiCA 13, organized by Department of Computer Science, Hindustan College of Arts and Science, Chennai, Tamil	

	Alphanumeric Characters PP (V. S. Kumbhar, Ajit M. Gavali)	Nadu, India. 27th & 28th September, 2013.	
National Conference			
5	In search of Novel Applications Developers Nurture Superior Face Detection Techniques PP (V.S. Kumbhar, P T Goyal)	One Day National Conference-“On the Tracks of Globalization” organized by KIT’s Institute of Management Education and Research, Kolhapur, Maharashtra. 19 th October, 2013.	
6	Graphical Key Cryptography for Cryptography with ANSI Characters PP (V. S. Kumbhar, Ajit M. Gavali)	National Conference on Recent Advances in Information Technology (NCRAIT-2014) organized by Department of Computer Science and Computer Applications, School of Computational Sciences, Solapur University, Solapur. 15 and 16 February, 2014	
2014-15			
International Conference			
7	Auditing Social Networking Websites: A Clustering Approach PP (V.S. Kumbhar, K.S. Oza and R.K. Kamat)	First International Conference of Commerce and Management(ICCM) on “Demographic Dividend & Industrial Development with Inclusive Approach: A Road Ahead”, organized by Department of Commerce and Management, Shiavji University, Kolhapur. 2-3 March, 2015	
National Conference			
8	WEKA approach for Performance Evaluation of various data mining classification algorithms PP (V.S. Kumbhar, K S Oza)	Two day UGC sponsored National conference on “Modern Approach for Green Electronics and Computing (MAGEC-2014) organized by Department of Electronics, Yashwantrao Chavan Institute of Science, Satara. 29-30 September, 2014.	
9	Performance Evaluation of Classification Algorithms Using WEKA	UGC Sponsored National Seminar on “Recent Trends in Information Technology (NSRTIT-2015)”, organized by Department of Computer Studies, Chhatrapati Shahu Institute of Business	

	PP (V.S. Kumbhar, K.S. Oza)	Education and Research, Kolhapur. 6-7 March, 2015.	
2015-16			
International Conference			
10	Commercial Websites Facebook Data Analysis Using WEKA PP (V.S. Kumbhar, K.S. Oza)	International Research Conference on Physics, Chemistry, Mathematics, Electronics And Computer Science, organized by Anandi Arts, Commerce and Science College, Gaganbawada, Kolhapur, Maharashtra, India. 10 th October, 2015	
2016-17			
International Conference			
11	Classification of Heart Data using Weka PP 79 to 81 (V S Kumbhar, K S Oza, R R Mudholkar)	2 nd International Conference on Cognitive Knowledge Engineering (ICKE-2016) organized by Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. 21-23 December, 2016.	ISBN:978-93- 86751-04-1
12	Hotel Websites Facebook Data Analysis Using WEKA PP (V S Kumbhar, K S Oza)	Second International Conference of Commerce and Management (ICCM) on “Development Through Transformation: Prospectus for Inclusive Growth” organized by Department of Commerce and Management, Shivaji University, Kolhapur. 30 and 31 January, 2017.	
National Conference			
13	Prediction of Stock Market Share Value Using Machine Learning Techniques PP (V S Kumbhar, K S Oza, D R Kawade)	5 th National Conference on Recent Trends in Computer Science and Applications and Computational Mathematics (RTCSACM- 2016-17) organized by Indira College of Commerce and Science, Pune. 22-23 December, 2016.	
14	Comparative Analysis of Classification Algorithms PP (V S Kumbhar, K S Oza)	National Conference on Recent Trends in Information Technology held at Sadguru Gadage Maharaj College, Karad. 29 th January, 2017.	
15	Performance Analysis of Classification	National Conference on Innovative Trends in Electronics and Allied	

	Algorithms PP (V S Kumbhar, R R Mudholkar)	Technology (ITEAT-2017) organized by Department of Electronics and Computer Science, Yashwantrao Chavan Institute of Science, Satara. 23 February, 2017.	
2017-18			
International Conference			
16	SEO Based Website Analysis of Academic Institutes (V S Kumbhar, K S Oza, R K Kamat)	International Interdisciplinary Conference on Curriculum Reforms And Higher Education: Global Scenario organized by Department of Electronics, Department of Education, Department of Computer Science and Internal Quality Assurance Cell, Shivaji University, Kolhapur during 4,5,6 February, 2018.	
National Conference			
17	Impact of Digital India On Various Sectors (V.S.Kumbhar S.K.Kharade, K.G.Kharade)	National Conference on “ Transformation in Commerce, Management, Economics and Social Sciences in Globalized Era ” jointly organized by KIT’S IMER and Department of Commerce and Management, Shivaji University, Kolhapur on Tuesday, 23 rd January, 2018.	
2018-19			
International Conference			
18	Website Analysis: Search Engine Optimization Approach (V S Kumbhar, K S Oza)	International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), December 21-22, 2018 organized by School of Computational Sciences, Solapur University, Solapur	Print ISBN: 978-981-13- 9187-6 Online ISBN: 978-981-13- 9187-3
19	Providing Three Layer Security Through Pictographic Password to Protect Sensitive Data from Intruders (V.S.Kumbhar S.K.Kharade, K.G.Kharade)	Interdisciplinary International Conference on Skill Development in Higher Education, Saturday, February 2, 2019 organized by Shree Maharani Tarabai Government College of Education, Kolhapur.	ISSN 2278-5655
20	Classification of Gender data using Weka Tool in (V.S.Kumbhar)	International Conference of Commerce and Management on Recent Trends in Commerce and Management organized by Department of Commerce and	

		Management, Shivaji University, Kolhapur on 15-16 March, 2019.	
21	Opportunities and Challenges in Outcome Based Education (OBE) (V S Kumbhar)	International Conference on Outcome Based Education: Challenges and Opportunities, Department of Education, and Department of Technology, Shivaji University, Kolhapur on 5 April, 2019	
National Seminar			
22	Issues and Challenges of Women Empowerment in India (V S Kumbhar)	National Seminar on "Indian Democracy and its Challenges" organized by Shripatrao Chougulae Arts and Science College, Malwadi-Kotoli on 19 th October, 2018	ISSN 2349-638X
2019-20			
23	Setting Barrier to Removable Drive through Password Protection for Data Security PP 19-23 (V S Kumbhar, S K Kharade, R K Kamat, K G Kharade)	5th International Conference On "Innovations in IT and Management", organized by Sinhgad Technical Education Society's Sinhgad Institute of Management and Computer Application (SIMCA). Narhe Technical Campus, Pune, Maharashtra, India-411041, held on 6 and 7 February, 2020.	ISSN:0474-9030 Vol-68, Special Issue-27 (Feb. 2020)
24	Impact of Outcome-Based Education in Indian Universities V. S. Kumbhar Pg. no. 16938-16943	Solid State Technology Vol. No. 63, Issue.6, 2020	
2020-21			
25	Artificial Intelligence and Personalized Learning M. K. Patkar, V. S. Kumbhar PP 2411-2416	Turkish Journal of Computer and Mathematics Education Volume 12 No. 13 (2021)	
26	Artificial Intelligence In Linguistics - A Review Article M. K. Patkar, V. S. Kumbhar PP 7-10	International Journal of Research and Analytical Reviews Volume 8, Issue 2	e-ISSN: 2348-1269 p-ISSN: 2349-5138
2021-22			
27	The Ramifications of Integrating Data Science into Commercial Ventures	Aayushi International Interdisciplinary Research Journal (ISSN 2349-638x) Impact Factor 7.331	ISSN 2349-638x

	M.S.Sawant, K.G.Kharade, S.K.Kharade, V.S.Kumbhar, S.V.Katkar, R.K.Kamat PP 141-146	Special Issue No.107 on Global Strategies For A Resilient And Sustainable Post Pandemic World Towards A Better Future Peer Reviewed Journal	
28	Hardware Software Co-Designed Chatbot for Personalized Instruction A R Swami, V S Kumbhar	One Day International Conference on Recent Trends in Science and Technology	
29	The Role of Computer-Assisted Language Learning in Language Learning A R Swami, V S Kumbhar	One Day International Conference on Recent Trends in Science and Technology	
2022-23			
30	Artificial Intelligence and Personalized Learning M. K. Patkar, V. S. Kumbhar PP 2411-2416	International Conference at CSIBER On 8,9,10December 2022	
31	Artificial Intelligence and Personalized Learning M. K. Patkar, V. S. Kumbhar PP 2411-2416	International Conference at CSIBER On 8,9,10December 2022	

Major/Minor Research Project ongoing/ completed:

- 1) Completed minor research project on **“Investigation of Classification Techniques for Domain Specific Data”** sponsored by UGC with cost Rs. 75000/- (Duration: 1 December 2014 to 30 November 2016).
- 2) Co-Principal Investigator of Ongoing project on **"Faculty Development Center in Cyber Security and Data Science"** funded by MHRD for year 2018-2020 of 696.05 lakhs.
- 3) Co-Principal Investigator of Ongoing project on **"RUSA and Industry Sponsored Centre for VLSI System Design"** funded by MHRD for year 2018-2020 of 129 lakhs.

- 4) Principal Investigator of Ongoing project on "**Evaluation of Attainment in Outcome Based Education (OBE) Paradigm: A Soft Computing Approach**" funded by Shivaji University for year 2018-2020 of 2.05 lakhs.
- 5) Principal Investigator of Ongoing project on "**Artificial Intelligence Based Air Pollution Predictions in the Wake of Sustainable Development**" funded by Shivaji University under Research Strengthening Scheme for year 2021-2023 of 2.55 lakhs.

Worked as a Resource person/Expert/Selection committee member:

- 1) In a training program for college teachers and administrators, organized by Department of Mathematics, Shivaji University, Kolhapur during 18th October, 1999 to 30th October, 1999.
- 2) Worked as a convener for the Career Guidance Course for MSc and MCA students organized and conducted by Department of Computer Science, Shivaji University, Kolhapur in the year 2011 and 2012.
- 3) In the Workshop on "Spoken tutorials" jointly organized by IIT Bombay and Department of Computer Science, Shivaji University, Kolhapur on 19th September, 2013.
- 4) Worked as a Chairperson (Poster and Model Presentation) in NSD-2016, held on 28th February, 2016. [National Science Day 2016 on Make in India- "S & T Driven Innovations"] organized by Department of Computer Science, Shivaji University, Kolhapur.
- 5) Worked as a Chair Person in National Conference on Recent Trends in Information Technology held at Sadguru Gadage Maharaj College, Karad on 29th January, 2017.
- 6) Worked as a organizing committee member in National Workshop on "Emerging Trends in Information Technology in University Management" organized by Association of Indian Universities (AIU), New Delhi and hosted by Department of Computer Science, Shivaji University, Kolhapur during 28-30 August, 2017.
- 7) Attended BOS meeting at YC Satara for BSc Computer Science (Resource person for this workshop) on 8th January, 2018.
- 8) Worked as a organizing committee member for "International Interdisciplinary Conference on Curriculum Reforms in Higher Education: Global Scenario (iicrhe2018)" organized by Department of Education, Department of Electronics, Department of Computer Science and Internal Quality Assurance Cell, Shivaji University, Kolhapur during 4-6 February, 2018.
- 9) Worked as a coordinator for the Quick Heal Faculty Development Programme held on 14th-15th July, 2017, Organized by Department of Computer Science, Shivaji University, Kolhapur.

- 10) Worked as a member of Google sponsored Faculty Development Programme on Android Fundamentals in the Department of Computer Science, Shivaji University, Kolhapur during 4th to 8th July, 2017.
- 11) Worked as a member of the selection committee for the post of Teaching Assistant at Department of Commerce and Management, Shivaji University, Kolhapur on 30th October, 2017.
- 12) Worked as a Resource person and participated for “**One Day Workshop on Draft Syllabus for B.Sc.-I (Computer Science)**”, conducted on 8th January, 2018 in Department of Computer Science, Yashwantrao Chavan Institute of Science, Satara.
- 13) Chaired the session in International Interdisciplinary Conference on Curriculum Reforms And Higher Education: Global Scenario organized by Department of Electronics, Department of Education, Department of Computer Science and Internal Quality Assurance Cell, Shivaji University, Kolhapur during 4,5,6 February, 2018.
- 14) Worked as a coordinator for **A National Seminar: Brainstorming Paradigm Shifts in CS&E Education (BSPSinCSE)** held in University of Mumbai on 31st March, 2018
- 15) Worked as a coordinator for **Value Added Course on IoT (Internet of Thing)** in the Department of Computer Science, Shivaji University, Kolhapur during 1,2,3,4,6 August, 2018 (5 days).
- 16) Worked as a member of Technical Committee for providing online photocopy of the answer book to the student held on 8 January, 2019.
- 17) Worked as a expert committee member for the selection of System Programmer and Project Fellow for the BUTR Section of Shivaji University, Kolhapur on 10 January, 2019.
- 18) Worked as a expert committee member for the selection of Assistant Professor at Vivekanad College, Kolhapur on 14 July, 2019
- 19) Worked as a Information Officer for Department of Sports, Shivaji University, Kolhapur with vide letter no. 516 dated 22 July, 2020.
- 20) Worked as a expert committee member for the CAS scrutiny in the subject of Computer Science and Technology in PG Section of Shivaji University, Kolhapur on 4 June, 2020.
- 21) Worked as a member of Technical Felicitation Team for Online examination various courses of Shivaji University, Kolhapur during 27 October to 10 November, 2020.

Seminars /Webinars/ Conferences attended/ participated:

- 1) Instructional Conference on Research Trends in Information Technology held at Chh. Shahu Central Institute of Business Education and Research, Kolhapur on 3rd and 4th March, 2007.
- 2) UGC sponsored National conference in Mathematical Aspects of Physical Concepts and Physical Aspects of Mathematical concepts, 16- 17, January 2010, at Shri S.H. Kelkar college of Arts, Commerce and Science, Devgad.
- 3) International Conference on Emerging Trends in Engineering-ICETE-2010 held during 20-21, February, 2010 organized by Dr J J Magdum College of Engineering, Jaysingpur in technical collaboration with Cafet-Innova Technical Society, Hyderabad.
- 4) National Conference on Data Mining 2011 (NCDM-2011) organized by Allana Institute of Management Sciences, Pune on 19th and 20th February, 2011.
- 5) National Conference on “Emerging Technologies for Sustainable Developments” (NCET-2012) during 27th and 28th December, 2012 organized by Department of Technology, Shivaji University, Kolhapur.
- 6) UGC Sponsored “One-Day National Instructional Conference on Researching in Computer Science and Applications” on Friday, 10th January, 2014 organized by Department of Computer Studies, CSIBER, Kolhapur.
- 7) National Conference on Latest Advances, Trends in Electronic Science and Technology (LATEST-2014) Sponsored by UGC-SAP and Technically sponsored by IEEE Bombay Section, Jointly organized by Department of Electronics, Shivaji University, Kolhapur and Department of Electronics Engineering, KIT’s College of Engineering, Kolhapur, held during 14-15 February, 2014.
- 8) Participated in National Conference on Impact of Assessment and Accreditation on Higher Professional Institutes (A2HPI). Jointly organized by K.I.T.’s College of Engineering and Shivaji University, Kolhapur. Sponsored by NAAC Bangaluru. During 13th and 14th January, 2017.
- 9) Participated in One Day NAAC Sponsored National Seminar on “**Revised Accreditation Framework IRAF) of NAAC**” organized by Internal Quality Assurance Cell, Shivaji University, Kolhapur on 21 February, 2019.
- 10) Participated in Two Days National Webinar on “**E-Content Creation and E-Learning through MOOCs**” under UGC-STRIDE I Scheme organized by Barrister Balasaheb Khardekar Knowledge Resource Center (BBKKRC) and Department of Library & Information Science, Shivaji University, Kolhapur on 29 and 30 May, 2020.
- 11) Participated in One Day International Webinar on “**Fast, Accurate, Scalable: Building and Benchmarking Tabular Models** ” organized by Computer Engineering

Department, Supercomputer Facility, Government Engineering College, Rajkot, Gujarat
on 1 January, 2022.

12)

Workshops attended/Participated:

- 1) One Day Workshop on ‘Patent awareness’ sponsored by Patent Facilitating Centre, Technology Information, Forecasting and Assessment Council Department of Science and Technology, New Delhi and organized by University Industry Interaction Cell, Shivaji University, Kolhapur on 13th December, 2002.
- 2) Rational Rose workshop on “ Object Oriented Design & Analysis with Fundamentals of Rational Rose” organized by Department of Computer Science, Shivaji University, Kolhapur. 12th - 14th March 2004.
- 3) Workshop on “Effective Preparation of SET Exam in Computer Science and Application” organized by K J Somaiya College of Science and Commerce and SET Exam Body, Pune on 23, 24 and 25th July, 2004 in Mumbai.
- 4) Two days workshop on Free/Open Source Software (FOSS) organized by AU-KBC Research Centre, C-DAC Chennai, D.K.T.E. Textile & Engg. Institute, Computer Science and Engg. & Information Technology Dept, Ichalkaranji, on 10th and 11th January, 2008.
- 5) One Day Workshop on “E-Learning Tools and Practices”, organized by the Department of Computer Science, Shivaji University, Kolhapur, on 30th January, 2009.
- 6) One day workshop on “RISC: Research in Information System and Computing” organized by the Department of Computer Science, Shivaji University, Kolhapur on 1st October, 2009.
- 7) National Workshop on “Research Methodology and Quantitative Techniques”, organized by Department of Commerce & Management, Shivaji University, Kolhapur. 10th – 11th December- 2010.
- 8) State Level Comprehensive Workshop on MATLAB organized by Sinhgad Institute of Business Administration and Computer Application, Lonavala under Quality Improvement Programme (QIP) of University of Pune on 24th and 25th February, 2012.
- 9) National Workshop on “AI and Web: Opportunities and Challenges” held from March 2 to 4, 2012 organized by Parallel and Distributed Computing Division, School of Computing Science and Engineering, VIT University in association with Computer Society of India, Vellore Chapter.

- 10) Two-Day Workshop on “Formulation of Research Project Proposals in Statistics” organized by Department of Statistics, Shivaji University, Kolhapur, during 19-20 March, 2012.
- 11) Two-day workshop on “Research Writings, Ethics, Plagiarism and Publishability” organized by Internal Quality Assurance Cell (IQAC), Shivaji University, Kolhapur, held on 26th and 27th July, 2012.
- 12) A Workshop on “A Brain-Storming for Application of Technology for Sustainable Development in The State of Maharashtra”, organized by Maharashtra Academy of Sciences (MASc) and Shivaji University, Kolhapur (SUK), Sponsored by Rajiv Gandhi Science and Technology Commission (RGSTC) on 26th and 27th November, 2012.
- 13) National Workshop on “New Vistas of Research in Commerce and Management” organized by Department of Commerce and Management, Shivaji University, Kolhapur as on 16th and 17th September, 2013.
- 14) Workshop on “MOODLE Course Management System” organized by Department of Computer Science, Shivaji University, Kolhapur on 14th December, 2013.
- 15) UGC Sponsored Two Day National Workshop on “Advanced Data Mining Techniques (ADMT-2013)” organized by Department of Computer Science, Shivaji University, Kolhapur on 17th and 18th December, 2013.
- 16) One day workshop for ‘Coordinators of Avishkar Research Competitions’ held on Friday, 30th October, 2015 at Department of English, Shivaji University, Kolhapur.
- 17) One day workshop on Research Methodology for PG Students, research scholars, and faculty members, on 6th February, 2016 organized by Rayat Institute of Research and Development, Satara in association with YCIS, KBPCOES, KBPIMSR, Chh. Shivaji College, D.G. College, Azad College, ISMLC & SPM Mahavidyalaya, Satara.
- 18) Workshop on “Role of Academic Diary in Teaching-Learning Process” organized by Dr. Ghali College, Gadhinglaj on 10th March, 2016.
- 19) National level workshop on “Recent Trends in Data Warehousing and Data Mining (RTDWDM-2016) organized by School of Computational Sciences, Solapur University, Solapur, on 19-20 March, 2016.
- 20) One Day Workshop on “Maharashtra Public University Act 2016” held on 6th January, 2017 organized by Shivaji University Post Graduation Teachers Association (SUPTA), Kolhapur.
- 21) Two Day National Workshop on “Big Data Analytics with Hadoop” organized by Department of Computer Science, Shivaji University, Kolhapur in association with C-DAC,

Pune on 5th and 6th April, 2017.

- 22) One Day Workshop for University Teachers & College Librarians on “E-Resource Access and Introduction to API held on Wednesday, 9th August, 2017.
- 23) Participated in one day workshop on distribution of Theory Question Paper Online (Secured Remote Paper Delivery) at Department of Mathematics, Shivaji University, Kolhapur on 19th September, 2017.
- 24) Attended One Day State Level Workshop on “**Inculcating Value System in Students: Pedagogical Practices in Higher Education**” organized by Department of Education and Internal Quality Assurance Cell, Shivaji University, Kolhapur and Baha’i Academy, Panchagani on 2nd January, 2018.
- 25) Attended One Day Workshop on “**E-Content: Development and Hosting**” organized by Internal Quality Assurance Cell and Knowledge Resource Center, Shivaji University, Kolhapur on 9th January, 2018.
- 26) Participated in one day workshop on “Student-Centric Teaching-Learning Methods” organized by Department of Education and IQAC of Shivaji University, Kolhapur on 22nd June, 2018.
- 27) Participated in one day NSS program on “Training and Information Broadcasting of Young Ambassadors” at Shivaji University, Kolhapur on 19 September, 2018.

Seminar attended:

- 1) National Seminar on “**Skill Development in Rural and Cooperative Sector**” held in Yashwantrao Chavan School of Rural Development, Shivaji University, Kolhapur on 9th March, 2016 organized by Yashwantrao Chavan School of Rural Development and Vaikunth Mehta Institute of Cooperative Management, Pune.

Faculty Development Programme:

- 1) 3-Day Faculty Development Program on “**Alan M. Turing - Simplification in Intelligent Computing Theory and Algorithms**” organized as part of ALAN TURING CENTENARY YEAR – INDIA CELEBRATIONS during 18th -20th December, 2012 held at PES Institute of Technology, Bangalore.
- 2) **Five Day faculty development** workshop organized during 2-6 November, 2015, National Service Scheme Sponsored by Government of India, Ministry of Human Resource Development Department of Youth Affairs and Sports, New Delhi at Shivaji University, Kolhapur
- 3) Participated in Faculty Development Program (FDP) on “**Data Science With R**” from 25th to 30th July, 2016, organized by Department of Mechanical Engineering, Acharya Institute of Technology, Bangalore -560 107.

- 4) Participated in Faculty Development Program (FDP) on “**Android Application Development Fundamentals**” from 2nd to 6th January, 2017, organized by Department of Computer Science, Shivaji University, Kolhapur.
- 5) Participated in “**Faculty Development Program (FDP) on GST**” organized by Centre for Skill and Entrepreneurship Development, Department of Commerce and Management, Shivaji University, Kolhapur in association with ICA Edu Skills Pvt. Ltd., on March 18, 2017.
- 6) Attended two days faculty development programme on “**Recent Trends in Computer Science & Engineering and Information Technology**” during 28th and 29th September, 2017 at Bharati Vidyapeeth’s College of Engineering, Kolhapur.
- 7) Participated in **Faculty Development Programme in Cyber Security** organized by Faculty Development Centre in Cyber Security and Data Sciences hosted by Pune Vidhyarthi Griha’s College of Engineering and Technology, Vidyanagari, Pune conducted by FDC PMMMMNMTT, during 26th February to 4th March, 2019.
- 8) Participated in **Faculty Development Programme in Data Science** organized by Faculty Development Centre in Cyber Security and Data Sciences hosted by Smt. Champaban Balchand Shah Mahila Mahavidyalaya, Ratanshi Nagar, Sangli conducted by FDC PMMMMNMTT, during 14th May to 20th May, 2019.
- 9) Participated and successfully completed Two weeks online Faculty Development Programme (MOOC) on **Effective Use of ICT Tools in Online Teaching** organized by IQAC and Department of Electronics and Telecommunication Engineering Department of G. S. Mandal's Maharashtra Institute of Technology, Aurangabad, during 22nd June, 2020 to 4th July, 2020. This course is designed and developed on GNOMIO Site by Department of Pharmacy, Government Polytechnic, Jalgaon.
- 10) Participated in One week online Faculty Development Program on **E-Content Development and Delivery, Research Methodology and** conducted by Internal Quality Assurance Cell, Kamla Nehru Mahavidyalaya, Nagpur-24, Modern College of Arts, Science and Commerce (Autonomous), Shivajinagar, Pune-5 and RUSA, Maharashtra from 27th July 2020 to 1st August, 2020.
- 11) Participated and completed AICTE Training and Learning (ATAL) Academy Online Elementary Five Day Faculty Development Program on **Deep Learning** at Indian Institute of Information Technology, Vadodara from 13 December 2021 to 17 December 2021.
- 12)

STTP/ISTE Attended:

- 1) Attending ISTE-STTP on “**Data Warehousing and Mining**” during 25th February to 1st March, 2011 at Bharati Vidyapeeth’s College of Engineering, Kolhapur.
- 2) Two-Week ISTE Workshop on “**Database Management Systems**” conducted by Indian Institute of Technology Bombay from 21st to 31st May, 2013 held at Department of Computer Engineering, KIT’s College of Engineering, Gokul Shirgaon, Kolhapur.
- 3) Two-week ISTE Workshop on “**Computer Programming**” conducted by Indian Institute of Technology, Bombay from 20 May to 15 June and 16 June to 21 June, 2014, held at Department of Technology, Shivaji University, Kolhapur.
- 4) Two-week ISTE Workshop on “**Cyber Security**” conducted by Indian Institute of Technology, Bombay from 10-20 July, 2014, held at Department of Technology, Shivaji University, Kolhapur
- 5) Two-week ISTE STTP Workshop on “**Introduction to Design of Algorithms**” conducted by Indian Institute of Technology, Kharagpur and held at Department of Technology, Shivaji University, Kolhapur during 27 April to 24th May and 25 May to 30 May, 2015.
- 6) UGC-CPE Sponsored Short Term Training Program (STTP) on **Machine Learning** attended in CSIBER, Kolhapur from 27th to 31st December, 2017.
- 7) One Week Online Short Term Training Program (STTP) on **Data Science and Machine Learning (Basic to Advance Approach)** organized by Department of Electronics and Telecommunication Engineering, CSMSS Chh. Shahu College of Engineering, Aurangabad from 21 to 25 July, 2020.
- 8)

Symposia:

- 1) Participated in the National Symposium on **Business Analytics and Data Mining**, organized by Department of Statistics, Shivaji University Kolhapur during 21- 22 March, 2014 sponsored by UGC and DST (PURSE) .
- 2) Participated in the Two Day National Symposium on **Examination Reforms in Higher Education**, organized by Department of Education & Examination Section, Shivaji University Kolhapur on February 16-17, 2017.

Other courses attended:

- 1) “**A Course on Visual Basic for Software Professionals and Computer Teachers**”, organized by Department of Statistics (SQC and OR Unit), Shivaji University, Kolhapur held during 10,11,17,18,24,25 October and 7,8,14,15 November, 1998.

- 2) Participated in organizing **National Science Day** – 2012 held at Shivaji University, Kolhapur during 22nd – 28th February, 2012
- 3) One Day “**Avishkar-Orientation Programme**”, held on Monday, 9th December, 2013, organized by Department of Chemistry, Shivaji University, Kolhapur.
- 4) Participated in Training Programme on **Sexual Harassment of Women at Workplace** (Prevention, Prohibition and Redressal) Act, 2013.

Participation in other activities:

- 1) Worked as a Placement Officer.
- 2) Worked as a member of various committees in National Science Day.
- 3) Worked as a coordinator for “**Poster-Presentation Competition**” in National Science Day-2016.
- 4) Worked as in-charge for UGC NET Coaching Scheme.
- 5) Worked as in-charge for Remedial Coaching.
- 6) In-charge of Department Library.
- 7) Working as a chairman for MSc Computer Science practical.
- 8) Working as in-charge for Study-tour.
- 9) Delivered lectures for MPhil/PhD Students of social science departments, Viz. Marathi, Hindi, English.
- 10) Delivered lecture at Genius English Medium School students on ‘Uses of Computers’ on 1st March, 2016.
- 11) Delivered lecture to students and research scholars at Department of Electronics, Goa University, Goa on “**Big Data Analytics**” on 1st March, 2016.
- 12) Worked as a member for the Selection committee at Vivekanand College, Kolhapur on 6th March, 2016.
- 13) Worked as a member of admission committee for MCA and MSc course.
- 14) Worked as a Chairman for DCP Theory and practical examinations.
- 15) Worked as a subject expert for MPhil at CSIBER, Kolhapur on 16/9/2016
- 16) Worked as BOS chairman for BCS course at YC college Satara.
- 17) Worked as BOS member for MSc course at YC college Satara.
- 18) Worked as BOS member for BCS course at DJ college Satara.
- 19) Worked as BOS member for BCA course at DJ college Satara.
- 20) Worked as BOS member for BCom course at DJ college Satara.
- 21) Worked as BOS Chairman for B.Sc.(Information Technology) Entire Part-II for academic year 2018-19.
- 22) Worked as BOS member for M.Sc.(Computer Science) for academic year 2018-19.
- 23) Worked as BOS member for MCA (Science) for academic year 2018-19
- 24) Worked as BOS member for BSc Computer Science at Vivekanand College, Kolhapur on 5th March, 2019.
- 25) Worked as a expert for the BSc Computer Science interview panel on 14th July, 2019.
- 26) Worked as a member of Technical committee meeting for scanning of answer books of students on 8/1/2019.
- 27) Worked as a member of MCMC committee for Lokshabha and Vidhansabha election, Election Commission of India in April 2019 and October, 2019.

- 28) Appointed as a Information Officer for Department of Sports, Shivaji University,
Kolhapur.
- 29)

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