

PROFILE



Name: Deshmukh Manisha Shankarrao
Designation: Assistant Professor (Govt. Contract)
Address: School of Computer Sciences,
Kavayitri Bahinabai Chaudhari North Maharashtra University,
Jalgaon.

Contact Details:

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Academic Qualification:

- B.Sc. (Electronics)
- M.C.A.
- M. Phil (Computer Science),
- Ph.D. (Computer Science and Technology)
- SET Qualified.

Research Area: Pattern recognition, Image Processing, Machine learning.

Topic of research:

M.Phil. – “Image Association Using Linear Associative Memories”

Ph.D. – “Offline Handwritten British Age Modi Document Recognition System”

Teaching and Professional Experience:

Sr. No	Profile	Department	Start Date	End Date
1	Lecturer (Govt. Contract)	School of Computer Sciences, North Maharashtra University, Jalgaon.	01/07/2011	Till date

2	Assistant Professor (Contract)	Department of Computer Science & Information Technology, M.J. College, Jalgaon	01/01/2011	30/06/2011
3	Lecturer (CHB)	Smt. P.K. Kotecha Mahila Mahavidyalaya, Bhusawal	01/07/2000	30/12/2010

Total experience – 20 years

Publications:

International Journals: #05

- Manisha S. Deshmukh and Shubhangi S. Sapkale: “Online Expert System Based on Raga Chikitsa for Health Care”, International Journal of Multidisciplinary Approach and Studies, Volume 01, No.6, Nov - Dec 2014.
- M. S. Deshmukh & R. S. Deshmukh: “Automated System for the Generation of Digitized Text Format Musical Notation from the Recorded Indian Classical Bandish”, International Journal of Computer Research & Technology, Vol-1, Issue-2, ISSN: 2454-7719, pp. 173-177, July-Dec, 2015. (Special issue on National Conference on “Emerging Trends in Computer & Information Technology” held on 17th October, 2015)
- Manisha Deshmukh, Shubhangi Sapkale, “A Study and Review: On Image Segmentation Approaches”, International Journal of Research in Science & Engineering, e-ISSN: 2394-8299, p-ISSN: 2394-8280, 2017
- Deshmukh M. S., Patil M. P., & Kolhe S. R. (2017). The divide-and-conquer based algorithm to detect and correct the skew angle in the old age historical handwritten Modi Lipi documents. International Journal of Computer Science and Application, 14(2), 47-63. Vol. 14, No.2, pp.47–63 ISSN: 0972-9038 (**Scopus**) Citation: #2 (<http://www.tmrfindia.org/ijcsa/v14i24.pdf>)
- Deshmukh M. S., Patil M. P., & Kolhe S. R. (2018). A hybrid text line segmentation approach for the ancient handwritten unconstrained freestyle Modi script documents. The Imaging Science Journal, 66(7), 433-442. ISSN:1368-2199 (**SCI, Scopus, Web of Science**) (Impact Factor: 0.366) (<https://doi.org/10.1080/13682199.2018.1499226>)

National Journals: #01

- M. S. Deshmukh & S. S. Sapkale: “Impact of Music on Human Being: A Review”, Journal of Vision Research, Volume3, ISSN 2250-2025, December 2013.

International Conferences: #5

- 1) Deshmukh M. S., Patil M. P., & Kolhe S. R. (2015, August). Off-line Handwritten Modi Numerals Recognition using Chain Code. In Proceedings of the Third International Symposium on Women in Computing and Informatics (pp. 388-393). ISBN: 978-1-4503-

3361-0. (ACM digital library) (Scopus) (Citation: #2)
(<https://dl.acm.org/citation.cfm?id=2791419>)

- 2) Deshmukh, M. S., Patil, M. P., & Kolhe, S. R. (2017, September). A dynamic statistical nonparametric cleaning and enhancement system for highly degraded ancient handwritten Modi Lipi documents. In 2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI) (pp. 1545-1551). ISBN: 978-1-5090-6367-3 (IEEE Explorer) (DOI: 10.1109 / ICACCI. 2017. 8126061)
- 3) Manisha S. Deshmukh, Satish R. Kolhe (2019, February). A Hybrid Character Segmentation Approach for Cursive Unconstrained Handwritten Historical Modi Script Documents. International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019) 26th -28th Feb 2019. (SSRN Elsevier Digital Library) (Scopus) Citation: #1 (<https://ssrn.com/abstract=3356213> or <http://dx.doi.org/10.2139/ssrn.3356213>)
- 4) Manisha S. Deshmukh, Satish R. Kolhe “A Modified Approach for the Segmentation of Unconstrained Cursive Modi Touching Characters Cluster”, International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2020) 3rd - 4th Jan 2020 Vol. 1380 (CCIS, Springer) (Scopus) ISBN: 978-981-16-0506-2, https://doi.org/10.1007/978-981-16-0507-9_36.
- 5) Manisha S. Deshmukh, Satish R. Kolhe “Unsupervised Page Area Detection Approach for the Unconstrained Chronic Handwritten Modi Document Images”, 3rd IEEE International Conference on Emerging Smart Computing & Informatics (IEEE ESCI 2021) 5th -7th March 2021 (IEEE) (Scopus) (Best paper award) DOI: 10.1109/ESCI50559.2021.9396968

National Conferences:#08

- M. S. Deshmukh, & S. R. Kolhe “Image Association Using Linear Associative Memories”, Proceedings of the National Conference on Advances in Computing (NCAC-2011) 24th -25th February 2011, PP 149-152. ISBN: 978-81-910591-2-0.
- M. S. Deshmukh, M. P. Patil & S. R. Kolhe “Recognition of Modi Script Vowels using KNN”, Proceedings of the National Conference on Advances in Computing (NCAC-2013) 5th -6th March 2013, PP 206-210. ISBN: 978-81-910591-7-5.
- M. S. Deshmukh & S. S. Sapkale: “Impact of Music on Human Being: A Review”, Journal of Vision Research, Volume3, ISSN 2250-2025, December 2013.
- Manisha S. Deshmukh, Manoj P. Patil, Satish R. Kolhe : “Skew Angle Correction for Handwritten Devnagari Characters using Horizontal and Vertical Projection Profile Techniques”, National Conference on Recent Trends in Computer Science and Application, 27th -28th, Jan 2015.
- Manisha S. Deshmukh, Manoj P. Patil, Satish R. Kolhe. “Off-line Handwritten Modi Numerals Recognition using Chain Code”, 4th International Conference on Advances in Computing, communications and Informatics, WCI-2015, ACM, 10th – 13th August 2015.

- M. S. Deshmukh & R. S. Deshmukh: “Automated System for the Generation of Digitized Text Format Musical Notation from the Recorded Indian Classical Bandish”, National Conference on “Emerging Trends in Computer & Information Technology” held at Nahata College, Bhusawal, on 17 th October , 2015
- Manisha Deshmukh, Shubhangi Sapkale, “A Study and Review: On Image Segmentation Approaches”, National Conference In Recent Trend In Computer Science And Application held at IMR, Jalgaon, 2017
- Manisha S. Deshmukh, Manoj P. Patil, Satish R. Kolhe. “Detection and Correction of Skew Angle in the Ancient Handwritten Modi Documents”, proceeding of National Conference on Advances in Computing (NCAC-2017), 24-25 March 2017, ISBN: 978-81-910591-9-1

Books: #01

- “Computer graphics And Theoretical Computer Sciences”, Reference book for T.Y. B.Sc. Computer Science.

Poster Presented:#09

- M. S. Deshmukh & S. R. Kolhe: “Image Association Using Linear Associative Memories”, University Level Research Festival –AVISHKAR 2009, organized by North Maharashtra University, Jalgaon 1-2 December 2009.
- M. S. Deshmukh & S. S. Sapkale: “Impact of Music on Human Being : A Review”, University Level and District level Research Festival –AVISHKAR 2013, organized by North Maharashtra University, Jalgaon December 2013.
- M. S. Deshmukh & S. S. Sapkale: “Online Expert System Based on Music Therapy for Health Care”, University Level and District level Research Festival –AVISHKAR 2014, organized by North Maharashtra University, Jalgaon 2014.
- Manisha S. Deshmukh, Manoj P. Patil and Satish R. Kolhe: “Off-line Recognition of Handwritten Modi Numerals Using Chain Code and KNN Classifier”, NLIP2015, organized by School of Computer Sciences, North Maharashtra University, Jalgaon 14th -15th March ,2015.
- Manisha S. Deshmukh: “Off-line Handwritten Modi Character Recognition System”, University Level and District level Research Festival –AVISHKAR 2015, organized by North Maharashtra University, Jalgaon, 22-23 December 2015.
- Manisha S. Deshmukh “A Dynamic Statistical Nonparametric Auto Preprocessing System for Highly Degraded Chronic Handwritten Modi Documents”, University Level and District level Research Festival –AVISHKAR 2016, organized by North Maharashtra University, Jalgaon, January 2017.
- Manisha S. Deshmukh, Manoj P. Patil and Satish R. Kolhe, “Classification of Offline Handwritten Modi Script Characters Using GSC Features and Correlation Coefficient”, National Conference on Advances in Computing (NCAC-2018) 21st Feb 2018.

- Manisha S. Deshmukh “Ancient Modi Script Handwritten Document Segmentation and Recognition”, University Level and District level Research Festival –AVISHKAR 2017, organized by North Maharashtra University, Jalgaon, 29th & 30th Dec. 2017.(2nd prize)
- Manisha S. Deshmukh “Offline Automated Recognition System for Archaic Degraded Modi Script Handwritten Document”, University Level and District level Research Festival –AVISHKAR 2018, organized by North Maharashtra University, Jalgaon, 2nd & 3rd Dec. 2018.

State Level AVISHKAR: #01

“Ancient Modi Script Handwritten Document Segmentation and Recognition”, AVISHKAR 2017, held at Mahatma Phule Krushi Vidyapith, Rahuri, 16th & 18th January 2018.

Attended Workshop/Seminar/Conference/Webinar : #17

- National workshop on Emerging Research Trends in Advanced Computing on 14th -15th July 2007 organized by Department of Computer Science, North Maharashtra University, Jalgaon.
- Workshop on Patent Awareness held on the 4th August 2008 sponsored by ITFAC, DST (Govt. Of India), New Delhi at North Maharashtra University, Jalgaon.
- National Conference on Advances in computing NCAC 2011 held at Department of Computer Science, North Maharashtra University, Jalgaon from February 24 to 25, 2011.
- UGC-SAP sponsored National Seminar on Natural Language Processing and Image Processing on January 16th -17th, 2012 held at Department of Computer Science, North Maharashtra University, Jalgaon.
- National Conference on Advances in computing NCAC 2012 held at Department of Computer Science, North Maharashtra University, Jalgaon from March 16 to 17, 2012.
- National Conference on Advances in computing NCAC 2013 held at Department of Computer Science, North Maharashtra University, Jalgaon from March 05 to 06, 2013.
- UGC sponsored National Workshop on Advances in Computing on February 10th -15th, 2014 held at Department of Computer Science, North Maharashtra University, Jalgaon.
- Certificate Course in Modi Script, conducted by School of Social Sciences, Dept. of History, NMU, Jalgaon 19th August – 20th Sept 2014.
- National Workshop on Image Processing and Natural Language Processing - 2016(NWIPNLP-2016) held at School of Computer Sciences, NMU, Jalgaon on 21-23 January 2016.
- Work shop on “My Marathi-My Computer”, organized by North Maharashtra University, Jalgaon, and Rajya Marathi Vikas Sanstha, 10 March 2017.

- “Core Python” from 28th June to 04th July 2020. National Level Online Workshop organized by Department of Information Technology, Dr. Vikhe Patil College of Engineering, Ahmednagar.
- International technology Data Science Bootcamp 1.0 presented by IEEE SSIT Madras Section in association with WeePower, Tableau and IEEE YESIST12-2020, 4th June to 7th June 2020.
- "MOODLE: Online Teaching Management Tool “ webinar organized by Department of Management Science, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 18 June 2020.
- “Innovative Research in Computer Science & Paper Writing Skills” webinar organized by Department of Computer Science, Smt. G. G. Khadse College, Muktainagar, 22nd and 23rd June 2020.
- “Recent Trends in Computer Science Research” webinar organized by Department of Computer Science, Dr. Annasaheb G.D.Bendale Mahila Mahavidyalaya, Jalgaon, 1st and 2nd June 2020.
- ROUGH SET:A Tool for Qualitative Knowledge Data Discovery”, webinar organized by Yadav College, Govindraju Campus, Tiruppalai, Madurai, Tamilnadu, 4th July 2020.
- “English for Academic Research Writing” webinar organized by Department of Computer Engineering, SSBT’s College of Engineering & Technology, Bambhori, Jalgaon (M.S.), India on 16th June, 2020.

FDP attended (Online): #04

- “Recent Trends in Computer Science & IT” held from 13th – 17th July, 2020, conducted at Raj Kumar Goel Institute of Technology, Ghaziabad.
- “Online Teaching- Learning And Research Methodology” held from July 18th to 29th July 2020 conducted by Govt. P. G. College, Bilaspur Rampur (UP)
- “Machine Learning Essential for Every Researcher” held from 6th - 10th July 2020 organised by KONGU Engineering college, Perundurai Erode
- “Artificial Intelligence using Python” held from 14-09-2020 to 19-09-2020, organised by Brainovision Solutions India Pvt.Ltd. & National Youth Council of India

Invited Guest Lecture/ Webinar: #06

- “Advanced Java Programming”, Smt. P. K. Kotecha Mahila Mahavidyalaya, Bhusawal.
- “Artificial Intelligence: History to Advancement, Myths and Realities”, Arts and Science College, Bhalod.SASAI-13 poster Presentation, 28/09/2013.
- “Computer Graphics”, SETNET coaching class, School of Computer Sciences, NMU, Jalgaon., 2012
- “Computer Graphics”, SETNET coaching class, School of Computer Sciences, NMU, Jalgaon., 17/09/2013

- “Cloud Computing: A Journey from History to Advancement and Its Role in Social and Business Development”, Arts and Science College, Bhalod, Cloud Computing Seminar 2015 (CCS-15), 3rd Oct. 2015.
- “Introduction to Modi Lipi and Need of The Computerization” webinar, Smt. P. K. Kotecha Mahila Mahavidyalaya, Bhusawal. 27th Nov 2020.

Extracurricular Activities

- Syllabus design
Involved in syllabi design of MCA, M.Sc. (CS) & M.Sc. (IT) of School of Computer Sciences, KBCNMU, Jalgaon and other Computer related courses run by the affiliated colleges.
- Examination
Involved in Examination related duties like paper setting, checking, etc. at School of Computer Sciences, KBCNMU, Jalgaon and University.
- Departmental responsibilities
 - Worked/Working as a member of the local committees appointed by the Director from time to time.
 - Academic committee (NIRF, Quarterly report, NAAC data, DST report, Academic audit report, Management council report)
 - Examination committee (M.Sc. IT – Exam scheduling to result analysis)
 - Active participation in all activities of the School of Computer Sciences, KBCNMU, Jalgaon as a member like National Science Day Programs, Workshops, Conferences and Seminars.
- University level responsibilities
 - Worked/Working as a member of the committees appointed by the University higher authorities from time to time.
 - Registration committee (Avishkar - Campus and University level) Team leader (Yuvarang)

Manisha S. Deshmukh