

Resume



1. Name and full correspondence address
Dr. Ms. Kavita Vishwasrao Bhosle (Mohite)
Gurukrupa, Plot no 59, Chatrapati Nagar, Beed by pass, Aurangabad
2. Email(s) and contact number(s)
kavita.bhosle@mit.asia, kvbcse@gmail.com, +91 9422687156, +91 02402375160
3. Institution
Working as Professor in Emerging Science and Technology Department, MIT,
Aurangabad
4. Date of Birth: 03-01-1976
5. Teaching Experience: 24 yrs in MIT, Aurangabad
6. Administrative Experience: Worked as Head of Computer Science and Engineering department and working as head of Emerging Science and Technology department
7. Research :

Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.
Title: Feature Extraction of remote sensing data using Deep learning Convolution Neural Network model for crop classification and monitoring

Institute/Organization/University: Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Year of Award: March 2021

I have worked on crop identification and classification. I have used Hyperspectral remote sensing data for crop feature extraction and classification. This project was implemented using Deep Learning Convolutional Neural Network (CNN) as data was unstructured. Optimized CNN has been compared with two classification algorithms: Deep Neural Network (DNN) and Convolutional Autoencoder. We have focused on majorly Mulberry, Cotton, and Sugarcane crop for classification.

Recognized as PhD guide in 2024

8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% of marks
1.	BE (Computer Science and Engineering)	1998	Computer Science and Engineering	Jawaharlal Nehru Engineering College, Aurangabad, Dr. BAMU University	First Division
2.	ME(Computer Science and Engineering)	2006	Computer Science and Engineering	Government College of Engineering, Aurangabad, Dr. BAMU University	First Division
3.	Ph.D. (Computer Science and Engineering)	2021	Computer Science and Engineering	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	-
4	MS (Applied AI)	2024	Applied Artificial Intelligence	University of San Diego	Pursuing

9. Publications

Papers in National/ International Journal

- Kavita Bhosle, Bhakti Ahirwadkar Deep learning Convolutional Neural Network (CNN) for Cotton, Mulberry and Sugarcane Classification using Hyperspectral Remote Sensing Data, Journal of Integrated Science and Technology, 2021, 9(2), 70-74, **Scopus indexed**.
- Kavita Bhosle & Vijaya Musande (2020): Evaluation of CNN model by comparing with convolutional autoencoder and deep neural network for crop classification on hyperspectral imagery, Geocarto International To link to this article: <https://doi.org/10.1080/10106049.2020.1740950>, **SCI, WOS, Scopus indexed**.
- Kavita Bhosle & Vijaya Musande, Evaluation of Deep Learning CNN Model for Land Use Land Cover Classification and Crop Identification Using Hyperspectral Remote Sensing Images, Springer's Journal of the Indian Society of Remote Sensing, ISSN 0255-660X Volume 47 Number 11, (2019) 47:1949-1958 DOI 10.1007/s12524-019-01041-2, **SCI, WOS, Scopus indexed**.
- Kavita Bhosle, Vijaya Musande, Evaluation of deep learning Convolutional Neural Network for Crop Classification, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-2, July 2019, **Scopus indexed**.
- Kavita Bhosle, Bhakti Ahirwadkar Deep learning Convolutional Neural Network (CNN) for Cotton, Mulberry and Sugarcane Classification using Hyperspectral Remote Sensing Data, Journal of Integrated Science & Technology, 2021, 9(2), 70-74, **Scopus indexed**.

- Kavita Bhosle, Vijaya Musande, Agricultural Stress Monitoring Using Remote Sensing Data, International Journal of Engineering and Advanced Technology (IJEAT) Volume-9 Issue-3, February 2020
- Kavita Bhosle, Vijaya Musande, CNN Model for Land Use Land Cover Classification, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 8, Issue 12, December 2019
- Kavita Bhosle, Vijaya Musande, Analysis using Vegetation Index, Novateur Publications International Journal of Innovations In Engineering Research and Technology [IJIERT] ISSN: 2394-3696 VOLUME 7, ISSUE 1, Jan.-2020
- Kavita Bhosle, Vijaya Musande, Regularized CNN Model for Crop Classification in International Journal of Innovative Science and Research Technology, Volume 5 - 2020 - Issue 1 – January
- Shweta Ghorpade¹, Dr Kavita Bhosle, Rice Leaf Disease Detection Using CNN, Gradiva Review Journal, Volume8 Issue 9 2022, ISSN No 0363-8057, 32-39
- Ashutosh D. Zade , Kavita V. Bhosle, Convolutional Neural Network:DEVNAGARI DIGIT RECOGNITION in INTERNATIONAL JOURNAL OF INFORMATION AND COMPUTING SCIENCE, Volume 5, Issue 10, ISSN NO: 0972-1347
- Ms. Pranati Waghodekar & Prof. (Ms) Kavita Bhosle, Survey of Efficient and Fast Nearest Neighbor Search For Spatial Query on Multidimensional Data, International Journal of Engineering studies and Technical Approach, ISSN No 2395-0900 Dec 2015
- Sheetal Lohare, Prof. Kavita Bhosale, An Improvised Approach for Utilizing Sentiment Analysis for Topic Detection, International Journal of Emerging Technology and Advanced Engineering, (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 11, November 2015
- K.V. Bhosle, Rohit Anil Kautkar, Appraising and Exploring Similarity Measurement Approaches in Recommendation Systems by means of Momentous, International Journal of Advanced Research in Computer Science and Software Engineering Volume 5, Issue 4, April 2015, ISSN: 2277 128X
- S.M. Junaid, K.V. Bhosle, Overview of Clustering Techniques, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 11, November 2014 ISSN: 2277 128X

- Kavita Bhosle, Madhu Jaiswal, AGRICULTURE CROP PRODUCTION MINING USING TIME SERIES ANALYSIS, International Journal of Computer Applications in Engineering, Technology and Sciences, IJ-CA-ETS , ISSN: 0974-3588 , Jan '11 – June '11, Volume 4 : Issue 1
- Kavita Bhosle, KDS for Sericulture Cocoon Production, International Journal of Computer Applications (0975 - 8887), 2010, Volume 1 – No. 18

Papers in National /International Conference Proceedings

- Kavita Bhoslea, Dr. Vijaya Musande, Stress Monitoring OF Mulberry Plants By Finding REP Using Hyperspectral Data, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-1/W1, (2017) ISPRS Hannover Workshop: HRIGI 17 – CMRT 17 – ISA 17 – EuroCOW 17, 6–9 June 2017, Hannover, Germany, **Scopus indexed.**
- Kavita Bhosle, Dr. Vijaya Musande, Red Edge Point Detection for Mulberry Leaf, IEEE conference, Intelligent Systems and Information Management(ICISIM)-2017 978-1-5090-4264-7/17/\$31.00 ©2017 IEEE, **Scopus indexed.**

Papers published in Book chapter

- Chapter on Knowledge Discovery in Agriculture Crop Production by Kavita Bhosle, S. R. Chaudhar, Madhu Jaiswal, in IEEE Knowledge Engineering, Narosa Publishing House New Delhi, ISBN number :978 -81-8487-123-4
- Chapter on Anomaly detection using Semi supervised learning for sericulture Cocoon Production by Kavita Bhosle, Anjana Ghule, S. R. Chaudhary, Computer Vision and Information Technology Advances and Applications, I. K. International Publishing House Pvt. Ltd. New Delhi, ISBN number :978-93-80026-95-4, Page 850-855

Reviewer

- Taylor & Francis, Geocarto International Journal,
- Elsevier, Computers and Electronics in Agriculture Journal
- Springer, Journal of the Indian Society of Remote Sensing

List of Courses Taught/Teaching at UG/ PG level

- Design and Analysis of Algorithm
- Theory of Computation
- Database Management System
- Principles of Compiler Design
- Computer Fundamentals and Programming
- System Programming
- Discrete Mathematical Structure
- Data Mining

List of Courses Taught/Teaching at PG level

- Advanced Data mining and Warehousing
- Advanced Algorithm

Detail of patents

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	Systems and Methods for Implimenting a Blockchain Ledger to Silk Production Process	1 . Kavita Vishwasrao Bhosle 2 . Ajay Pratapsinha Mohite 3 . Atharva Ajay Mohite 4 . Soham Abhay Mohit	202221000678	18/02/2022	Indian Patent Office Government of India	Published

Detail of Copyright

S.No	Copyright Title	Copyright No.	Award Date	Agency/Country	Status
1	Laboratory chart on Example of Directed Hamiltonian Cycle (DHC)	L-89751/2020	15-12-2020	Copyright Office Government of India	Published
2	Cross Word Puzzle on system administration	L-113095/2022	15-03-2022	Copyright Office Government of India	Published

Certification Completed through IBM Cognitive Class

- Artificial Intelligence Concepts
- Python 101 for Data Science
- Data Analysis with Python

NPTEL Certification

Duration (in Weeks)	Course Name
Jan to Apr 2019	FDP on Machine Learning for Engineering and Science Applications
Feb to Mar 2019	FDP on Teaching and Learning in Engineering (TALE 1)
Oct 2019	FDP on Teaching and Learning in Engineering TALE2

Membership of Professional Bodies

- Life member of ISTE LM 30050
- Life member of CSI # 00100501

Date: 13th Feb 2025

Place: Chhtrapati Sambhaji Nagar

Dr. Kavita Bhosle (Mohite)