

Curriculum Vitae

Name: Dr. Kavita Bhosle

Address: Gurukrupa, Plot no 59, Chatrapati Nagar, Beed by pass,
Aurangabad

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Date of Birth: 03-06-1977



Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Computer Science and Engineering		Dr. Babasaheb Ambedkafr Marathwada University, Aurangabad	Mar 2021		
M.E./ M. Tech.	M. E. CSE	Government College of Engineering , Aurangabad	Dr. Babasaheb Ambedkafr Marathwada University, Aurangabad	Jan 2006	69 %	<i>First Class</i>
B.E./B.Tech.	B. E. CSE	MGM's Jawaharlal Nehru Engineering College, Aurangabad	Dr. Babasaheb Ambedkafr Marathwada University, Aurangabad	July 1998	64 %	<i>First Class</i>

ME(CSE)

Title	E Governance
College	Government College of Engineering, Aurangabad

Ph. D (CSE)

Title	Feature Extraction of remote sensing data using Deep learning Convolution Neural Network model for crop classification and monitoring
Guide	Dr. Vijaya Musande
University	Dr. Babasaheb Ambedkafr Marathwada University, Aurangabad
Completed on	March 2021

Key Research Areas: Remote Sensing, Machine Learning, Image Processing

Experience

Sr. No.	Organization	Post	From-To	No. of Years
1	MIT	Associate Professor	2011-till date	11 yrs
2	MIT	Assistant Professor	2004-2011	7 yrs
3	MIT	Lecturer	1999-2004	5 yrs

List of Courses Taught/Teaching at UG level:

- Introduction to Artificial Intelligence
- 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

Additional Assignments/Duties:

- Dr. Babasaheb Ambedkafr Marathwada University, Aurangabad
- Worked as Board of Study members for Computer Science and Engineering
 - Worked as chairperson of the workshop on revised syllabus of First year Engineering for the subject Elements of computers and electronics
 - Worked as member of Board of study
 - MIT, Aurangabad
 - Worked as Head of the Computer Science and Engineering Department

- Worked as Project Coordinator
- Working as Research and Development Coordinator
- Worked as Central TW/CT Marks Verification Committee Member
- Working as Central Audit committee member
- Worked as member in TechnoMIT

Membership of Professional Bodies:

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

Seminar/Workshop/Industrial Training/STTP//FDP/CEP/Conference Attended:

WORKSHOPS ATTENDED

- One week Training on Data Analytics Conducted by Deloitte Touche Tohmatsu India LLP and MIT
- Faculty Enablement Program on “Database Management System through INFYTQ Platform” conducted in online mode using WebEx platform from 22nd July to 24th July 2020 by Infosys Limited.
- Webinar W6 Development and use of Ruric for effective assessment on 28 July 2020.
- One Week Short Term Training Programme on “Image Processing and Data Science with MATLAB (IP&DSWM 2020)”, organized by Department of Information Technology, Government College of Engineering, Aurangabad, under Technical Education Quality Improvement Programme (TEQIP- III), during 07th July to 11th July 2020.
- Online Webinar on “Medical Image processing using Machine learning” organized by Department of Electronics & Telecommunication Engineering, Marathwada Institute of Technology, Aurangabad, (M. S) on 30th May 2020.
- one-week online workshop on “Next Generation Software Tools and Trends for Industrial Solutions: Current Practices”-NGST-2020, from 13 June to 17 June 2020, organized by Computer Science and Engineering Department, Government College of Engineering, Aurangabad
- Training attended on Hyperspectral Remote Sensing and its Applications, 2 week ISRO Outreach certification Programme from 21 Jan to 01 Feb 2019
- FDP attended on Teaching and Learning in Engineering (TALE 1), 1 week NPTEL-AICTE in Mar 2019.

- FDP attended on Machine Learning for Engineering and Science Applications NPTEL-AICTE Apr 2019
- FDP attended on Outcome Based Education and NBA Process from 9th July, 2018 to 14th July, 2018
- Attended 18th IIRS Outreach Programme on "Basics of Remote Sensing, GIS & GNSS" NNRMS, organized by ISRO, Dehradun from 22nd August-18th Nov 2016
- Attended FDP on Hyperspectral remote Sensing Govt of India Department of ISRO, NRSC, Hyderabad from 8th -12th Aug 2016
- Attended STTP on Principles of Research Methods JNEC, Aurangabad from 28-29 Dec 2015 Workshop attended on Linux System and networking Administration, two days, Jan 2005 in MIT Aurangabad
- Attended Gurukul for Gurus training program on Emotional Intelligence from 17-18 Oct 2014, 4-5 Feb 2015 in MIT Aurangabad
- Attended IETE Sponsored STTP on 'Big Data Analytics 2nd June – 6th June, 2014 in PESC, Aurangaad
- Attended 2 week ISTE STTP conducted by IIT Khargapur in MIT, Aurangabad on Introduction to Design of Algorithm from Apr-May 2015.
- Attended Latex workshop from 17 Nov 2011 organized by IITB in MIT, Aurangabad
- Attended OOAD using UML with essential Rational Software Architect from 5-8 July 2010 organized by IBM-MIT, Auranagabad.
- Attended Data warehousing and data mining from 25-27 Feb 2010 organized by Dr. BAMU, Auranagabad
- Attended LAMP frame work from 21-22 Nov 2005 at Government Engineering College, Aurangabad.
- Attended Linux System and networking Administration in r]the month of Jan 2005 in MIT Aurangabad

ORGANISING WORKSHOP/CONFERENCES

- Member of Organizing Committee for the International Web Conference on Impact of COVID-19 on Library Resource Sharing, 12-13 June, 2020.
- Faculty Coordinator for TECH-PRO, National Level Online Project Competition on 27th June 2020.
- Organised STTP on Deep Learning from 2nd July to 7th July 2018

- Organizing secretary of 1 week FDP on Outcome Based Education and NBA Process, in MIT, Aurangabad
- Organized workshop on Octave Open Source Software from 19-20 Jan 2009 in MIT, Aurangabad
- Organised Industrial training at TechFest, Pawai, Mumbai in 2007
- Worked as subject expert for the interview of assistant professor in MGM's JNEC, Aurangabad.
- Worked as coordinator for Technomillinium 2008 in MIT, Aurangabad
- Organized Technical program CompuFest in 2004, MIT, Aurangabad

Invited talks delivered

- Delivered talk on Computer Vision in 3 days workshop on Demystify AI

Intellectual Property Rights

Detail of Patent

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	SYSTEMS AND METHODS FOR IMPLEMENTING 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

List of Research 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 [IJERT] 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
- 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

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

Certification Completed through IBM Cognitive Class

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

Date: 14th Dec 2022

Place: Aurangabad