

Capt. Dr. AMIT BHAGAT

Associate Professor

Home

45/1, C Sector Sarvdharm Colony
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Department of Mathematics,
Bioinformatics and Computer
Applications, MANIT, Bhopal
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RESEARCH INTERESTS

Natural Language Processing, Machine Learning, Deep Learning and Data Mining

EDUCATION:

Ph. D. in Computer Applications, 2013 from Maulana Azad National Institute of Technology, Bhopal

Master of Computer Applications (M.C.A.) in 2003 from MCRPV University Bhopal

Bachelor of Computer Applications (B.C.A.) in 2000 from MCRPV University Bhopal

PROFESSIONAL EXPERIENCE

Associate Professor, Department of Computer Applications, Maulana Azad National Institute of Technology(MANIT), Bhopal, Dec 2023- Till date

Assistant Professor, Department of Computer Applications, Maulana Azad National Institute of Technology(MANIT), Bhopal, 2005- November 2023.

INDUSTRY EXPERIENCE

Software Engineer, Mobineers Info System Pvt Ltd. Delhi, 2003 – 2005

ADDITIONAL RESPONSIBILITY

Professor In-charge Admissions, Examination and Faculty Welfare – **Indian Institute of Information Technology Bhopal** August 2019 – Till Date

Associate NCC Officer – 2008 – Till Date

NUMBER OF PH.D. THESIS SUPERVISING: 06 (awarded)
03(Pursuing)

NUMBER OF DISSERTATION GUIDED: 80+.

PUBLICATIONS (INTERNATIONAL JOURNALS)

Authors	Title	Journal	VOL. NO., PAGE NO	YEAR	SCI/ Scopus	IMPACT FACTOR
Prashant Kumar Nag, Amit Bhagat and R. Vishnu Priya	Expanding AI's Role in Healthcare Applications: A Systematic Review of Emotional and Cognitive Analysis Techniques	IEEE Access	Vol 13 69129 - 69160.	2025	SCIE	3.6
Dixit, Dheeraj Kumar, Amit Bhagat, and Dharmendra Dangi	An accurate fake news detection approach based on a levy flight honey badger optimized CNN model	Concurrency and Computation: Practice and Experience	Vol. No. 35 Page No. e7382	2023	SCIE	2.0
Dharmendra Dangi, Sonal Telang Chandel, Dheeraj Kumar Dixit, Suvarna Sharma, Amit Bhagat	An efficient model for sentiment analysis using artificial rabbits optimized vector functional link network	Expert Systems with Applications	Vol. No. 225 Page No. 119849	2023	SCIE	8.5
Dixit, Dheeraj Kumar, Amit Bhagat, and Dharmendra Dangi	Automating fake news detection using PPCA and levy flight-based LSTM.	Soft Computing	Vol. No. 26 Page No. 12545- 12557	2022	SCIE	4.10

Dangi, Dharmendra, Amit Bhagat, and Dheeraj Kumar Dixit	Sentiment analysis of social media data based on chaotic coyote optimization algorithm based time weight-AdaBoost support vector machine approach	Concurrency and Computation: Practice and Experience	Vol. No. 34 Page No. e6581	2022	SCIE	2.00
Dangi, Dharmendra, Dheeraj K. Dixit, and Amit Bhagat.	Sentiment analysis of COVID-19 social media data through machine learning	Multimedia Tools and Applications	Vol. No. 81 Page No. 42261-42283	2022	SCIE	3.60
Dixit, Dheeraj Kumar, Amit Bhagat, and Dharmendra Dangi	Fake News Classification Using a Fuzzy Convolutional Recurrent Neural Network	CMC- COMPUTERS MATERIALS & CONTINUA	Vol. No. 71 Page No. 5733-5750	2022	SCIE	3.10
Dangi, Dharmendra, Amit Bhagat, and Dheeraj Kumar Dixit	Sentiment Analysis on Social Media Using Genetic Algorithm with CNN	CMC- Computers, Materials & Continua	Vol. No. 70 Page No. 5399-5419	2022	SCIE	3.10
Suvarna Sharma, Dharmendra Dangi, Dheeraj Kumar Dixit, Rashmi Gupta,	Utilization of hesitant and intuitionistic fuzzy sets (HFS-IFS) in computational intelligence for decision modeling	International Journal of Information Technology	17	2025	Scopus	

Jeetendra Kumar, Amit Bhagat						
Dharmendra Dangi, Dheeraj Kumar Dixit, Amit Bhagat, Durgesh Rao, Jeetendra Kumar Gupta	Efficient Deep Learning Model for Analyzing Muscle Activity Patterns in Biomechanical Simulations	SN Computer Science	6	2025	Scopus	
Amit Bhagat, Dharmendra Dangi, Vaibhav Suman, Dheeraj Kumar Dixit, Suvarna Sharma	Fake News Detection Using ARO and LSTM Algorithms	SN Computer Science	6	2024	Scopus	
Dharmendra Dangi, Amit Bhagat, Jeetendra Kumar Gupta	Review on sentiment analysis of movie reviews using machine learning techniques based on data available on Twitter	International Journal of Engineering Systems Modelling and Simulation	Vol. No. 1	2024	Scopus	
Prashant Kumar Nag, Amit Bhagat, R.Vishnu Priya, Sunil Malviya and Sanjay Mishra	Leveraging Text Data in Healthcare: A Systematic Review of AI-Driven Emotional Analysis and Patient-Centric Innovations	ICHISS	Vol. 6	2024	Scopus	

Deepak Kumar Khare, Amit Bhagat and R. Vishnu Priya	Yolov5-Based Attention Mechanism for Gesture Recognition in Complex Environment	International Journal of Advanced Computer Science and Applications (IJACSA)	Vol. 15	2024	Scopus	
Dharmendra Dangi, Amit Bhagat, Jeetendra Kumar Gupta	Review on sentiment analysis of movie reviews using machine learning techniques based on data available on Twitter	International Journal of Engineering Systems Modelling and Simulation	15 253-259	2024	Scopus	
Deepak Kumar Khare, Amit Bhagat and R. Vishnu Priya	3D Object Detection in Point Clouds Leveraging Edge Convolution and Bottleneck Attention	Metszet Journal (Scientific Journal)	9/8 182-203	2024	Scopus	
Deepak Kumar Khare, Amit Bhagat, R Vishnu Priya, Prashant Kumar Nag, Sunil Malviya	Enhancing Small Object Detection through Structure-Aware and Global Contextual Information	Computer Research and Development	24/8	2024	Scopus	
Nair, Rajit, and Amit Bhagat.	Feature selection method to improve the accuracy of classification algorithm	International Journal of Innovative Technology and Exploring Engineering	Vol. No. 8 Page No. 124-127	2019	Scopus	

Sharma, Suvarna, and Amit Bhagat	Automation of Manual Seed URLs Cull Approach for Web Crawlers	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Vol. No. 8	2019	Scopus	
Premnarayan Arya and Amit Bhagat	Performance evaluation of several machine learning classification algorithms with combined feature selection methods for sentiment analysis	International Journal of Innovative Technology and Exploring Engineering	Vol. No. 8 Page No. 2278-3075	2019	Scopus	
Nair, Rajit, and Amit Bhagat	Genes expression classification using improved deep learning method	International Journal on Emerging Technologies	Vol. No. 10 Page No. 64-68	2019	Scopus	
Rajit Nair, Vaibhav Jain, Amit Bhagat, Ratish Agarwal	An Efficient Approach for Sentiment Analysis Using Regression Analysis Technique	International Journal of Computer Sciences And Engineering	Vol. No. 7 Page No. 161-165	2019		
Nair Rajit, Preeti Sharma, Amit Bhagat, and Vidya Kant Dwivedi	A survey on IoT (Internet of Things) emerging technologies and its application	International Journal of End-User Computing and	Vol. No. 7 Page No. 1-20	2018		

		Development (IJEUCD)				
Nair, Rajit, and Amit Bhagat	A Life Cycle on Processing Large Dataset-LCPL	Int. J. Comput. Appl	Vol. No. 179 Page No. 27-34	2018		

INTERNATIONAL CONFERENCES:

- Amit Bhagat, Dharmendra Dangi, Dheeraj Dixit 'Fake News Detection using ARO and LSTM Algorithm' in Fourth International Conference on Computing, Analytics and Networks (ICAN 2024)
- Suvarna Sharma, Amit Bhagat "Data Preprocessing Algorithm for Web Structure Mining" in 5th International Conference on Eco-friendly Computing and Communication Systems (ICECCS-2016) during November 8-9, 2016 at MANIT, Bhopal.
- Dharmendra Dangi, Sachin Bhandari, Amit Bhagat "Analysis of Shared Memory in Distributed and Non Distributed Environment " in 5th International Conference on Eco-friendly Computing and Communication Systems (ICECCS-2016) during November 8-9, 2016 at MANIT, Bhopal.
- Presented research paper entitled "Extracting Information from Web Pages by Crawler" in 18th Annual Cum 1st International Conference of Vijnana Parishad of India (VPI) on Computational And Integrative Sciences during December 11-14, 2015 at MANIT, Bhopal.
- Amit Bhagat, Sanjay Sharma, K.R. Pardasani, "Effective Mining Of Association Rules From Large Databases", International Conference on Intelligent Computing and Information System (ICICIS-2012), 27-28 Oct, Pachmarhi (2012) pp 132-135.
- Amit Bhagat, Sanjay Sharma, K.R. Pardasani, "Application Of Neural Network Techniques In Data Mining", International Conference on Intelligent Computing and Information System (ICICIS-2012), 27-28 Oct, Pachmarhi (2012) pp 136-140.

BOOK CHAPTERS

- Suvarna Sharma, Puneeta Rosmin, Amit Bhagat, "Blockchain Technology: Limitations and Future Possibilities", Blockchain Technology IGI Global 2020
- Rajit Nair, Amit Bhagat, "An introduction to clustering algorithms in Big Data", Encyclopedia of information Science and technology, fifth edition, 559-576, 2020
- Rajit Nair, Amit Bhagat, "An Application of Blockchain in Stock Market", Transforming Businesses with Bitcoin Mining and Blockchain Applications, IGI Global 2019

- Rajit Nair,Amit Bhagat, “Clustering using Brain Storm Algorithm in Data Analytics”, Computer Science Advances: Research and Applications, Nova Science 2019
- Rajit Nair,Amit Bhagat, “An application of Big Data Analytics in Road Transportation”, Handbook of Research on Pattern Engineering System Development for Big Data Analytics, IGI Global 2018
- Rajit Nair, Amit Bhagat, “Healthcare Information Exchange Through Blockchain- Based Approaches”, Transforming Businesses With Bitcoin Mining and Blockchain Applications,IGI Global 2018

WORKSHOP/TRAINING PROGRAM/SUMMER/WINTER SCHOOL ATTENDED:

- IEEE Smart Tech Metro Area Workshop at Bangalore, 26-27 September 2014
- Architecture, Algorithms, Analytics for Big Data using Cloud and Distributed Computing (abcd-2014) 7-11 March 2014 N.I.T., Warangal
- Emerging Trends in Electric Power and Energy Systems 1-5 January 2014 MANIT, Bhopal
- Mathematical models and Methods in Engineering 16-18 December 2013 MANIT, Bhopal
- “Network Simulation” 19-23 August 2013 MANIT, Bhopal
- IEEE Hyderabad Section Conference organizers Workshop 21-31 May 2013 IEEE, Hyderabad.

CONFERENCE WORKSHOP/TRAINING PROGRAM/SUMMER/WINTER SCHOOL ORGANIZED:

- One-Day Conference – “Envisioning Tomorrow’s University: A Transdisciplinary Dialogue on the Future of Education” | September 09, 2025, Bhopal
- A Five Day workshop on Python and its Scientific Applications, from 16th to 20th June 2025.
- Springer Scopus Indexed 6th International Conference on Communication and Intelligent Systems) to be organized by Maulana Azad National Institute of Technology (MANIT), Bhopal during November 08-09, 2024.
- IEEE sponsored in 5th International Conference on Eco-friendly Computing and Communication Systems (ICECCS-2016) during November 8-9, 2016 at MANIT, Bhopal
- Workshop on “ Hands on Big Data with Hadoop”, 01 - 05 Nov’ 2014.
- Short Term Training Program On “Information Retrieval” 26-27 February 2014
- Data Mining and Pattern Management,13-15 January 2014
- Staff Development Program on “Data Warehousing and Data Mining” 30.06.11 to 11.07.11

MEMBERSHIPS / AFFILIATIONS

- IEEE, ACM, CSI