

Dr. CHANDRASHEKHAR HIMMATRAO PATIL

Ph.D. (Computer Science), MCA, SET, B.Sc.(Computer Sci.)



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Address - Flat No. 404, C Wing, Yashwant Nagar, Deshmukhwadi, Shivane, Pune – 411 023.

Objective: To obtain a leadership position such as Principal, Director, or Senior Professor, where I can utilize my extensive academic and administrative experience to drive institutional growth, enhance academic standards, promote research excellence, and foster an environment of innovation, collaboration, and student-centered learning.

Professional Summary:

Dedicated and accomplished academic leader with over 19 years of teaching and 5+ years of academic administrative experience in higher education, currently serving as Associate Professor and former Head, School of Computer Science at MIT World Peace University, Pune. Holds a Ph.D. in Computer Science with a specialization in Digital Image Processing and recognized as an approved Ph.D. guide.

Successfully supervised **3 Ph.D. scholars (awarded)** with **1 ongoing**, reflecting a strong commitment to research mentorship and academic excellence. Published **16 journal papers** in reputed Scopus-indexed journals and contributed to over 100 research outputs including international conference papers, patents (5 granted, 3 published), and copyrighted works.

Demonstrated leadership in curriculum development, accreditation, and institutional development through key roles such as Chairman, Board of Studies; Member, Academic Council and IQAC; and Chair of the Entrance Examination Committee for multiple academic sessions.

Recipient of multiple honors including the Ideal Teacher Award (2024) and Best Teaching Staff Award (2015). Committed to fostering a research-driven, student-centric, and innovation-led academic environment aligned with contemporary global standards in higher education.

Short Profile:

- **19+ years of teaching experience** (14 Years Assistant Professor, 5+ years Associate Professor)
- B.Sc.(CS), MCA and Ph.D. in Computer Science (Digital Image Processing)
- **Ph.D. Guidance - 2 Ph.D. students Awarded.** 1 Submitted thesis. 1 PhD ongoing.
- **16 Scopus Journal Publications, 36 Scopus International Conference publications**
- **2 Scopus book chapters and 1 book publication**
- **8 Patents – 5 granted and 3 published**
- **3 Copyright Granted**

Research Profile Links:

- Scopus ID: [57422261800](#)
- Researcher ID: [ACE-9083-2022](#)
- ORCID ID: [0000-0002-6699-1279](#)
- Google Scholar: [Link](#)
- Research Gate: [Link](#)

Research:

1. Awarded Ph.D. in Computer Science entitled ‘A Study on Handwritten Marathi Word Recognition’ under the guidance of Dr. M. S. Prasad at Bharati Vidyapeeth Deemed University, Pune, May-2016.

Research Projects:

2. Successfully Completed Minor research project during A.Y. 2012-14 entitled ‘A Study on Devanagari Character Recognition’ as a Co- Investigator funded by BCUD, University of Pune, Pune.

Teaching Experience:

Total teaching experience 19+ years:

1. Working as Associate Professor, MIT – World Peace University, MIT, Pune from 1 October 2019 to till date. (**Approved Experience**)
2. Worked as Assistant Professor, MIT – World Peace University, MIT, Pune from 1st Jan 2008 to 30 Sep 2019 formerly known as MAEER’s Arts, Com & Sci College, Pune. (**Approved Experience**)
3. Worked as lecturer (BCS) in New arts, commerce & science college, Ahmednagar from 16th Jul 2007 to 31st Dec 2007.
4. Worked as lecturer (MCA) in R.C.Patel Educational Trust’s, Institute of Management Research & Development, Shirpur from 19th Jun 2006 to 6th Jul 2007.

Administrative experience (5 Years):

1. Working as Head, School of Computer Science, MIT – World Peace University, MIT, Pune from 17 Sep 2018 to 30th June 2023.

Awards:

- Received **Ideal Teacher Award** by MAEER's MIT Group of Institutions, on the occasion of '**Founder's Day**' 3rd February, 2024 .
- Received Best Teaching Staff award by MAEER's Arts, commerce and Science College at Annual Social Gathering Prism-2015.

Educational Details:

Examination Passed	Year of passing	Board / University	Percentage	Class
Ph.D. (Computer Science)	5- May-2016	Bharati Vidyapeeth Deemed University, Pune	"A Study on Handwritten Marathi Word Recognition" under Dr. M. S. Prasad	
SET	Feb – 2007	Maharashtra	PASS	
M.C.A.	Jul – 2006	Pune	70.69%	Distinction
B.Sc. (Computer Science)	Jul -2003	N.M.U., Jalgaon	61.91%	First class
H.S.C. Science	Feb -2000	Nashik Board	61%	First class
S.S.C.	Mar -1998	Nashik Board	57.33%	Second class

Research Publications:

Sr. No.	Research Outcome	Scopus	Non-Scopus	Total
1	International Journal	20 (Sci-6, Q1-7, Q2-4, Q3-9)	3	22
2	International Conference	41	2	43
3	Book	0	1	1
4	Book Chapter	2	0	2
5	Patent	NA	NA	8
6	Copyright	NA	NA	3
7	National Conference	0	27	27
Total		63	33	108
Research Guidance		Ph.D. Awarded – 3 Ph.D. Ongoing - 1		4
Research Project		1.5 lac from BCUD, University of Pune		1.5 lacs

Patents(Granted-5, Published-3):-

2024:

1. A MODULAR INTERNET OF THINGS-ENABLED TABLET AND CAPSULE DISPENSER DEVICE, Application Number – 202421028033, Indian Patent, 19 April 2024, **C. H. Patil**, Sachin Bhoite, Amol Tagalpallewar, Akshay Baheti, Anil Pawar, Harshali Patil. **[Granted]**
2. AUTOMATED HOMOEOPATHIC MEDICATION DISPENSER AND METHOD OF DISPENSING THEREOF, Application Number – 202421021226, Indian Patent, 19 April 2024, **C. H. Patil**, Sachin Bhoite, Amol Tagalpallewar, Akshay Baheti, Anil Pawar, Harshali Patil. **[Published]**
3. IoT Based Waste Disposer, Application Number – 406096-001, Indian Design Patent, 30 January 2024, Harshali Patil, **C. H. Patil**, Meenal Jabde, Bhagyashree Padhyar. **[Published]**
4. ARTIFICIAL INTELLIGENCE BASED CROP HARVESTING AGRICULTURE ROBOT, Application Number – 405446-001, Indian Design Patent, 23 January 2024, **C. H. Patil**, S. M. Mali, Aniket Nagane, Harshali Patil. **[Published]**

2023:

5. INTELLIGENT BIOSENSOR DEVICE FOR EARLY DETECTION OF LUNG CANCER, Application Number – 6241365, UK Design Patent, 12 September 2023, Amol Vibhute, Minhaj Khan, **C. H. Patil**, K. K. Patel. **[Granted]**

2022:

6. IoT-based intelligent parking management system and a Method Thereof, Application Number – 202221062435, Indian Patent, 2 November, 2022, **C. H. Patil**, Shankar Mali, Amol Vibhute, Sachin Bhoite, Harshali Patil, Pushkar Parmar, Shohrat Ali, Shubham Modi. **[Granted]**
7. A SMART HOME MANAGEMENT SYSTEM AND A METHOD THEREOF, Application Number – 21/01/2022/01420, Republic of South Africa utility Patent, 29 June 2022, **C. H. Patil**, Amol Vibhute, S. M. Mali, Ashin Varghese, Shiva Vyas, Jatin Pakhrani. **[Granted]**
<https://iponline.cipc.co.za/Patents/Search/FreePTSearch.aspx> ABKUBP India\$5000

2021:

8. MEDICAL DISPENSER, Application Number – 345468-001, Indian Design Patent, 29 June 2021, Amol Tagalpallewar, Akshay Baheti, Dnyanesh Limaye, **C. H. Patil**, Mehul Sherdiwala, Nakia Lightwala. **[Granted]**

Copyright (Granted 2, Published-2):-

1. Format for Computer Science/Application Post Graduate Students for Industrial Internship Report, Diary Number – 16583/2022-CO/L, 4 August 2022, **C. H. Patil**, S. M. Mali, Harshali Patil. <https://copyright.gov.in/frmStatusGenUser.aspx> **[Granted]**
2. Personal Academic Website for Dr. Chandrashekhar Himmatrao Patil, Diary Number – 17292/2022-CO/L, 17 August 2022, **C. H. Patil**, S. M. Mali, Harshali Patil, Amol Vibhute, Vansh Duggar. <https://copyright.gov.in/frmStatusGenUser.aspx> **[Published]**
3. Architecture of Entrance Examination for Undergraduate and Post graduate at Dr. Vishwanath Karad MIT World Peace University Pune, Application Number – 2920/2022-CO/L, 5 April 2022, Uttam Padwal, **C. H. Patil**, Pradip Padhye. **[GRANTED]**

International Journal Publications (Total 20) :-

Academic Year-2025-26 (Q1-1, Q2-2 , Q3-4 , Q4-)

1. **Mayuri Bapat**, Shankar Mali, **C. H. Patil**, (OCT 2025), Development of ColorEmoNet Dataset and Machine Learning Approach for Emotion Recognition using Colour Theory, Engineering, Technology & Applied Science Research (ETASR) [SCOPUS indexing – Q2] <https://doi.org/10.1016/j.dib.2023.109743>
2. **Mayuri Bapat**, Shankar Mali, **C. H. Patil**, (June 2025), Development of Multimodal and Image Dataset for Emotion Classification and Detection, Science Publication, Journal of Computer Science [SCOPUS indexing – Q3] <https://doi.org/10.1016/j.dib.2023.109743>
3. **Nisha Kamble**, C. H. Patil, Balaso Jagdale, S. M. Mali, (May, 2025), “SafeSeeds: A Novel Architecture and Analysis for Seed Distribution Ecosystem using Blockchain Technology” in University of Bahrain, International Journal of Computing and Digital Systems [SCOPUS – Q3]
<http://dx.doi.org/10.12785/ijcds/1601100>
https://iiict.uob.edu.bh/IJCDS/papers/IJCDS1601100_1571013540.pdf
4. **Mandar Parale**, Shankar Mali, **C. H. Patil**, (Jan 2025), A Systematic Review on Human Action detection and classification Architectures using Deep Learning Methodology, MULTIMEDIA TOOLS AND APPLICATIONS [SCOPUS indexing – Q1] [10.31803/tg-20240819123835](https://doi.org/10.31803/tg-20240819123835)
5. **Mayuri Bapat**, Shankar Mali, **C. H. Patil**, (Jan 2025), Study of Gender-Specific Emotion Expressivity in Speech Using MFCC and CNN, Technical Journal [SCOPUS indexing – Q3] [10.31803/tg-20240819123835](https://doi.org/10.31803/tg-20240819123835)
6. **Meenal Jabde**, **C. H. Patil**, Amol Vibhute, Shankar Mali (Jan 2025), An Air-written real-time multilingual isolated numeral dataset development and recognition for commonly used twelve languages in India, Science Publication, Journal of Computer Science [SCOPUS indexing – Q3] <https://doi.org/10.1016/j.dib.2023.109743>
7. **Atiya Khan**, **C.H. Patil**, Amol D. Vibhute, Shankar Mali, (September 2025), Crop type classification using Sentinel-2 images and AI-enabled methods for Precision Agriculture, , Springer: Applied Geomatics. [SCOPUS/ESCI – Q2] <https://doi.org/10.1016/j.dib.2023.109743>

Academic Year-2024-25 (Q1-2, Q2-1 , Q3-3 , Q4-)

8. Meenal Jabde, **C. H. Patil**, Amol D. Vibhute, Jatinderkumar Saini (Jan 2025), A Systematic Review of Multilingual Numeral Recognition Using Machine and Deep Learning Methodology, Springer: Artificial Intelligence Review [SCOPUS indexing / SCIE – Q1] DOI: [10.1007/s10462-025-11105-0](https://doi.org/10.1007/s10462-025-11105-0)
9. Meenal Jabde, **C. H. Patil**, Amol D. Vibhute, Shankar Mali (8 November 2024), An air-written real-time multilingual numeral string recognition system using deep convolutional neural networks, Science Publication, Journal of Computer Science [SCOPUS indexing – Q3] <https://thescipub.com/abstract/jcssp.2024.1712.1722>
10. Archana Mallapudi, **C.H. Patil**, Amol D. Vibhute, Shankar Mali, (28 Nov 2024), COMPARISON OF AGRICULTURAL DROUGHT INDICES FOR AHMEDNAGAR REGION FOR A PERIOD OF 1990 To 2023, Springer, SN Computer Science. [SCOPUS – Q1] <https://link.springer.com/article/10.1007/s42979-024-03497-7>
11. Mayuri Bapat, **C.H. Patil**, S. M. Mali, (31 Dec 2024), Database Development and Recognition of Facial Expression Using Deep Learning, International Journal of Computing [SCOPUS – Q3] [DOI 10.47839/ijc.23.4.3760](https://doi.org/10.47839/ijc.23.4.3760)

12. Sachin Bhoite, **C.H. Patil**, Harshali Patil, (19 Sep 2024), Industrial IoT Sensor Data Federation in an Enterprise for an Early Failure Prediction, University of Bahrain, International Journal of Computing and Digital Systems [SCOPUS – Q3]
<http://dx.doi.org/10.12785/ijcds/1601100>
https://iiict.uob.edu.bh/IJCDSS/papers/IJCDSS1601100_1571013540.pdf
13. Amol D. Vibhute, **C. H. Patil**, Jatinder kumar Saini, Harshali Patil (7 Sep 2024), Detecting Covid-19 from Chest X-Ray Images Using Machine Learning and Deep Convolutional Neural Networks, Indonesian Journal of Electrical Engineering and Computer Science (IJECS) [SCOPUS indexing – Q2]
<https://ijeeics.iaescore.com/index.php/IJECS/article/view/35396>

Academic Year-2023-24 (Q1-2, Q2- , Q3-2 , Q4-)

14. Atiya Khan, **C.H. Patil**, Amol D. Vibhute, Shankar Mali, (1 June 2024), Mapping crop types at a 10 m scale using Sentinel-2 data and machine learning methods, University of Bahrain, International Journal of Computing and Digital Systems [SCOPUS – Q3]
<http://dx.doi.org/10.12785/ijcds/1501123>
15. Amol D. Vibhute, Minhaj Khan, Anuradha Kanade, **C. H. Patil**, Sandeep Gaikwad, Kanu Pate (7 Jan 2024), An LSTM-based Novel Near-real-time Multiclass Network Intrusion Detection System for Complex Cloud Environments, John Wiley and Sons Ltd, Concurrency and Computation: Practice and Experience [ESCI & SCOPUS indexing – Q1]
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/cpe.8024>
16. Meenal Jabde, **C. H. Patil**, Amol D. Vibhute, Shankar Mali (26 Oct 2023), An online multilingual numeral dataset on Devnagari and English languages for pattern recognition research, Elsevier, Data in Brief [ESCI & SCOPUS indexing – Q1]
<https://doi.org/10.1016/j.dib.2023.109743>
17. Meenal Jabde, **C. H. Patil**, Amol D. Vibhute, Shankar Mali (6 Jan 2024), A comprehensive literature review on air-written online handwritten recognition, University of Bahrain, International Journal of Computing and Digital Systems [SCOPUS – Q3]
<https://journals.uob.edu.bh/handle/123456789/5339>

Academic Year-2022-23 (Q1-1, Q2-1 , Q3- , Q4-)

18. Manojkumar Sonawane, Chitra Dhawale, **C.H. Patil**, Sachin Bhoite (10 June 2023), Towards Recognition of Degraded Printed Marathi Characters, Gradiva Review Journal [SCOPUS]
<https://gradivareview.com/volume-9-issue-6-2023/>
<DOI:10.37897.GRJ.2022.V9I6.23.513104>
19. Archana Mallapudi, Amol D. Vibhute, Shankar Mali, **C.H. Patil** (27 Jan 2023), Spatial and seasonal change detection in vegetation cover using time-series Landsat-9 satellite images and machine learning methods, Springer, SN Computer Science. [SCOPUS – Q1]
<https://link.springer.com/article/10.1007/s42979-023-01710-7>
20. Archana Mallapudi, Amol D. Vibhute, Shankar Mali, **C.H. Patil** (14 Dec 2022), A review of agricultural drought assessment with remote sensing data: methods, issues, challenges and opportunities, Springer: Applied Geomatics. [SCOPUS/ESCI – Q2]
<https://link.springer.com/article/10.1007/s12518-022-00484-6>

Academic Year-2021-22(Q1-1, Q2- , Q3- , Q4-)

21. Atiya Khan, Amol D. Vibhute, Shankar Mali, **C.H. Patil** (19 May 2022), A systematic review on hyperspectral imaging technology with a machine and deep learning methodology

for agricultural applications, Elsevier: Ecological Informatics. [SCIE/WOS/SCOPUS – Q1] <https://doi.org/10.1016/j.ecoinf.2022.101678>

Academic Year-2014-15

22. C. H. Patil(2014), Recognition of Handwritten Marathi Vowels using Zone based Symmetric Density Features in peer reviewed referred international journal IJCA, NY, USA ISSN-0975-8887, Vol. 108 No. 4 December 2014. <https://research.ijcaonline.org/volume108/number4/pxc3900187.pdf>
23. C. H. Patil(2014), Recognition of Handwritten Marathi Vowels using Combination of Topological and Statistical Features, in peer-reviewed referred international journal IJERT ISSN-2278-0181, Vol. 3 Issue 11 November 2014. <https://www.ijert.org/research/recognition-of-handwritten-marathi-vowels-using-combination-of-topological-and-statistical-features-IJERTV3IS110775.pdf>

Book Chapter Publications (Total 2) :-

1. Atiya Khan, C. H. Patil, Amol D. Vibhute, Shankar Mali, (July 2024), “Application of Image Processing and Machine Learning Techniques for Vegetation Cover Classification in Precision Agriculture”, in IOP book “Image processing with Python: Vol2 A practical approach <https://iopscience.iop.org/book/edit/978-0-7503-5924-5> [SCOPUS].
2. Atiya Khan, C. H. Patil, Amol D. Vibhute, Shankar Mali, (November, 2023), “Revolutionizing Agriculture with Intelligent Vision and High Performance Computing: Advancements and Future Prospects”, in PARALLEL AND HIGH-PERFORMANCE COMPUTING IN ARTIFICIAL INTELLIGENCE, Taylor and Francis Publisher https://link.springer.com/chapter/10.1007/978-981-97-9839-1_7 [SCOPUS].

International Conference Presentations (Total 43)

Year-2025-26

1. Bhagyashri Pawar, C. H. Patil, Meenal Jabde, S. M. Mali, (Dec 11-13, 2025), Morphological and Contour-Based Handwritten English Word Segmentation on IAM Dataset, 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2024), Bangkok, Thailand and published in Springer CCIS. https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8A AAAA:3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzR tL7YezUMYRtc5uprr [Scopus].
2. Devyani K, S. M. Mali, C. H. Patil, Aniket Nagane (Dec 11-13, 2025), Air-Written Digit Recognition with CNN(ResNet-18) and BiLSTM: A Spatio-Temporal Approach on ISI-Air Dataset, 8th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R) and published in Springer CCIS Series. https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8A AAAA:3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzR tL7YezUMYRtc5uprr [Scopus].
3. Ashish Garud, S. M. Mali, C. H. Patil (Sep 22-25, 2025), Deep ResNet-Based Classification of Handwritten Devanagari Characters: A Comprehensive Evaluation on DEVA-C-SET Dataset , Istanbul, Turkey and published in Springer Lecture Notes in Networks and Systems. https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAA A:3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUM YRtc5uprr [Scopus].
4. Aniket Nagane, C. H. Patil, S. M. Mali, Meenal Jabde (August 23-24, 2025), Review on Artificial Intelligence Techniques for Multimodal Biometrics, Washington

University of Science and Technology (WUST), Alexandria, United States and published in Springer Lecture Notes in Networks and Systems
https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr [Scopus].

Year-2024-25

5. Sunil B. Patil, **C. H. Patil**, Meenal Jabde, Vikas Mahandule (June 13-14, 2025), Automatic speech recognition system for Ahirani language using HMM in speaker dependent environments, Automatic speech recognition system for Ahirani language using HMM in speaker dependent environments , ICFAI University, Dehradun, India and published in Springer Lecture Notes in Networks and Systems
https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr [Scopus].
6. **C. H. Patil**, Meenal Jabde (December 10-12, 2024), An Air-written real-time English isolated numeral recognition, 6th International Conference on Soft Computing and its Engineering Applications (icSoftComp2024), Bangkok, Thailand and published in Springer CCIS
https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr [Scopus].
7. **Shrushti Jadhav**, Mukta Wagh, Samruddhi Dashrath **C. H. Patil** (July 3-4, 2024), Enhancing the Sentiment Analysis: Effectively Recognizing Positive and Negative tweets, International Conference on Data Science & Exploration in Artificial Intelligence, organized by the Manipal Institute of Technology MAHE, Bengaluru, India during July 3-4, 2024, and published in Taylor and Francis Publication. <https://www.routledge.com/Data-Science--Exploration-in-Artificial-Intelligence-Proceedings-of-the-First-International-Conference-On-Data-Science--Exploration-in-Artif/HL-Flammini-J/p/book/9781032963976> [Scopus].
8. Eknath Rokade, Meenal Jabde, **C. H. Patil** (25th to the 27th July, 2024) “Screening Application of Dyslexia and Dysgraphia Using Cognitive AI” in 10th International Conference on Smart Computing and Communication (ICSCC) – ICSCC 2024 during 25th to 27th July, 2024, Bengaluru, India and published in IEEE XPLOR
https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10690576&utm_source=scopus&getft_integrator=scopus [SCOPUS].
9. **C. H. Patil**, Sachin Bhoite, Harshali Patil, Meenal Jabde (July 23-24, 2024) “Advanced Scene Recognition with Digital Image Processing and Machine Learning” in Fifteenth International Conference on Advances in Communication, Network, and Computing – CNC 2024 during July 23-24, 2024, Bengaluru, India and published in GRENZE International Journal of Engineering and Technology (GIJET)
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143321434&partnerID=40&md5=fe2aacfcba3b38c685f4a7078a2f63c9> [SCOPUS].
10. **C. H. Patil**, Sachin Bhoite, Harshali Patil, Meenal Jabde (July 23-24, 2024) “Deep Learning Based Cat Breed Recognition” in Fifteenth International Conference on Advances in Communication, Network, and Computing – CNC 2024 during July 23-24, 2024, Bengaluru, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143321434&partnerID=40&md5=fe2aacfcba3b38c685f4a7078a2f63c9> [SCOPUS].

Year-2023-24

11. **C. H. Patil**, Sunil Patil, Raut, Kumar Borkar, Shruti Rawade, , (June 21-22, 2024) “Brain Tumor MRI Classification” in Fifteenth International Conference on Advances in

- Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209141931&origin=resultslist> [SCOPUS].
12. C. H. Patil, Ashish Garud, Akash Gavhane, Arjun Sonawane, Mayur Jadhav, (June 21-22, 2024) "Forecasting Medical Insurance Costs: A Data-Driven Approach" in **Fifteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209080735&origin=resultslist> [SCOPUS].
 13. C. H. Patil, Mandar Parale, Karan Nadkarni, Ninad Zanje, S. M. Mali, , (June 21-22, 2024) "Stock Market Prediction Using Darvas Box Technique" in **Fifteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209130055&origin=resultslist> [SCOPUS].
 14. C. H. Patil, Harshal Patil, Kaustubh Deodhar, Amaan Sayyed, Hitank Shah, (June 21-22, 2024) "Real-time Air-written English Numeral String Recognition Using Deep Learning" in **Fifteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209101628&origin=resultslist> [SCOPUS].
 15. C. H. Patil, Aniket Nagane, Renuka Deokar, Isha Sonsale (June 21-22, 2024) "Air Characters Writing Detection And Recognition Using CNN" in **Fifteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209105243&origin=resultslist> [SCOPUS].
 16. Kalpesh Patil, Saloni Sathe, Meet Bhingardiya, C. H. Patil, (June 21-22, 2024) "Ultrasound-Based Breast Cancer Detection Using CNN: A Transfer Learning Approach" in **Fifteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2024** during June 21-22, 2024, Hyderabad, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85209091912&origin=resultslist> [SCOPUS].
 17. Archana Mallapudi, C. H. Patil, Amol Vibhute, S. M. Mali, (June 13-15, 2024), Temporal Evaluation of SPI and RDI for Agricultural Drought Analysis in Ahmednagar from 1981-2021, International Conference on Emerging Trends in Microelectronics, Communication and Intelligent Systems, organized by the School of Electronics and Telecommunication Engineering, MIT Academy of Engineering, Alandi, Pune, India during June 13-15, 2024, Delhi India and published in (CCIS). https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr [Scopus].
 18. Sachin Bhoite, C. H. Patil, Renuka Zope, (May 15-16, 2024), Machine learning based comparison Methods for the Estimate of Mobile Device Charging Duration, 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS 2024), Jawaharlal Nehru University, New Delhi, India during May 15-16, 2024, Delhi India and published in (CCIS). https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr

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19. Archana Mallapudi, **C. H. Patil**, Amol Vibhute, S. M. Mali, (May 15-16, 2024), Assessing Agricultural Drought Dynamics by Leveraging Landsat Time-Series Data and Supervised Classification, 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS 2024), Jawaharlal Nehru University, New Delhi, India during May 15-16, 2024, Delhi India and published in (CCIS).
https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA
A:3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUM YRtc5uprr [Scopus].
20. Atiya Khan, **C. H. Patil**, Amol Vibhute, S. M. Mali, (December 7-9, 2023), Machine Learning Models in Crop Yield Prediction across Diverse Agricultural Environments, 3rd International Conference on Intelligent System and Applications (ICISA-2024) organized by Institute of Artificial Intelligence, Dr. Vishwanath Karad MIT World Peace University during April 26-27, 2023, Pune, India and published in Lecture Notes in Electrical Engineering (LNEE). https://link.springer.com/chapter/10.1007/978-981-97-9839-1_7 [Scopus].
21. Amol D. Vibhute, Chandrashekhar H. Patil, Arjun V. Mane, Karbhari V. Kale (10-11 January 2024), Towards detection of network anomalies using machine learning algorithms on NSL-KDD benchmark datasets, "International Conference on Innovative Data Communication Technologies and Applications (ICIDCA 2024)," RVS College of Engineering and Technology, Coimbatore, India and published in Elsevier Procedia Computer Science <https://www.sciencedirect.com/science/article/pii/S1877050924006458> [Scopus].
22. Atiya Khan, Amol Vibhute, S. M. Mali, **C. H. Patil** (December 7-9, 2023), A U-Net Based Approach for High-Accuracy Vegetation Classification in Hyperspectral Remote Sensing, 5th International Conference on Soft Computing and its Engineering Applications (icSoftComp2023) and published in Springer CCIS https://link.springer.com/chapter/10.1007/978-3-031-53728-8_8 [Scopus].
23. Amol D. Vibhute, Minhaj Khan, Chandrashekhar H. Patil, Sandeep V. Gaikwad, Arjun V. Mane, Kanubhai Patel (**December, 2023**) "Network anomaly detection and performance evaluation of Convolutional Neural Networks on UNSW-NB15 dataset" in International Conference on Machine Learning and Data Engineering (ICMLDE 2023), UPES, Dehradun, India, during December, 2023, <https://www.sciencedirect.com/science/article/pii/S1877050924008871?via%3Dihub> [SCOPUS].
24. Sachin Bhoite, Vikas Magar, **C. H. Patil** (**December, 2023**) "AI-Driven Global Talent Prediction: Anticipating International Graduate Admissions" in Second International Conference on Applied Data Science and Smart Systems, Chitkara University during December, 2023, <https://www.taylorfrancis.com/chapters/oa-edit/10.1201/9781003471059-1/ai-driven-global-talent-prediction-anticipating-international-graduate-admissions-sachin-bhoite-vikas-magar-patil> [SCOPUS].
25. Mayuri Bapat, **C. H. Patil**, S. M. Mali, , (**August 23-24, 2023**) "Sentiment Analysis In Voice, Speech, And Audio: A Comprehensive Review of Feature Extraction And Detection Techniques" in Twelfth International Conference on Recent Trends in Information Processing and Computing- IPC 2023 during August 23-24, 2023, Bhopal, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85208816437&origin=resultslist> [SCOPUS].
26. Nisha Kamble, **C. H. Patil**, S. M. Mali, (**August 23-24, 2023**), "Usability Assessment Framework For Usability Testing Of A Software Application" in Twelfth International Conference on Recent Trends in Information Processing and Computing- IPC 2023 during August 23-24, 2023, Bhopal, India and published in GRENZE International Journal of

Year-2022-23

27. **C. H. Patil**, Renuka Zope, Meenal Jabde (**May 4-6, 2023**), Comparative Study of Multilingual Text detection and Verification from Complex Scene”, in 2nd International Conference on Applied Artificial Intelligence and Computing ICAAC 2023 organized by the Narasu’s Sarathy Institute of Technology during **May 4-6, 2023**, Salem, India and published in [IEEE Xplore Library](https://ieeexplore.ieee.org/document/10141373), <https://ieeexplore.ieee.org/document/10141373> [SCOPUS].
28. **C. H. Patil**, Meenal Jabde, Sachin Bhoite, Poojan Patel, Mrunali Pise, Vanshita Nachankar, Anannya Shetty, Dipti Parihar (**Apr 28-29, 2023**), Handwritten English Character Recognition using CNN, in Thirteenth International Conference on Computational Intelligence & Information Technology- CIIT2023 organized by the IDES and the ACEECom during **Apr 28-29, 2023**, India and published in Grenze Digital Library <https://www.scopus.com/record/display.uri?eid=2-s2.0-85174260457&origin=resultslist> [SCOPUS].
29. **C. H. Patil**, Harshali Patil, Sachin Bhoite (**Apr 28-29, 2023**), HANDWRITTEN NUMERAL RECOGNITION USING CNN, in Thirteenth International Conference on Computational Intelligence & Information Technology- CIIT2023 organized by the IDES and the ACEECom during **Apr 28-29, 2023**, India and published in Grenze Digital Library <https://www.scopus.com/record/display.uri?eid=2-s2.0-85174259892&origin=resultslist> [SCOPUS].
30. **C. H. Patil**, Sachin Bhoite, Harshali Patil (**Apr 28-29, 2023**), Challenges in Fintech Security, in Thirteenth International Conference on Computational Intelligence & Information Technology- CIIT2023 organized by the IDES and the ACEECom during **Apr 28-29, 2023**, India and published in Grenze Digital Library <https://www.scopus.com/record/display.uri?eid=2-s2.0-85174291772&origin=resultslist> [SCOPUS].
31. **Meenal Jabde, C. H. Patil**, Shankar Mali, Amol D. Vibhute (3-5 May 2023), Offline Handwritten Multilingual Numeral Recognition using CNN, in 2nd International Conference on Intelligent System and Applications (ICISA-2023) organized by Institute of Artificial Intelligence, Dr. Vishwanath Karad MIT World Peace University during May 3-5, 2023, Pune, India and published in Lecture Notes in Electrical Engineering (LNEE) https://link.springer.com/chapter/10.1007/978-981-99-6984-5_25 [SCOPUS].
32. Atiya Khan, Amol Vibhute, S. M. Mali, **C. H. Patil** (**January 27-28, 2023**), Spectral Unmixing for End Member extraction and Abundance estimation, International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (ICIITCEE 2023) and published in IEEE Xplore https://ieeexplore.ieee.org/abstract/document/10090877?casa_token=qkLFWSzWfH8AAAAA:3glgZgkqb4_CD4RraJqaJ0yCEIsRPnnvBWjEEeOnGIC6H8TQH45uEa4pCzRtL7YezUMYRtc5uprr [Scopus].
33. Aniket Nagane, **C. H. Patil**, S.M.Mali (January 27-28, 2023), Classification of Brahmi script characters using HOG features and multiclass error-correcting output codes (ECOC) model containing SVM binary learners, International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (ICIITCEE 2023) and published in IEEE Xplore https://ieeexplore.ieee.org/abstract/document/10091084?casa_token=bSHl9_BkGasAAAAA:Qql_HqnL_naMXbf7wGkEs7AwctVyUrLf8ytTL2_5VjXQd1RiZ5o2-l4SBnTIUEYEtX-EiNWNw4EK [Scopus].
34. Sachin Bhoite, **C. H. Patil**, Surabhi Thatte, Vikas Magar, Punam Nikam (January 5-7, 2023), A Data-driven probabilistic machine learning study for placement prediction, International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2023), REVA University and published in IEEE Xplore. <https://ieeexplore.ieee.org/abstract/document/10053523> [Scopus].

35. **C. H. Patil**, Harshali Patil, Shankar Mali (December 15-17, 2022), AI and Deep Learning based Mask Detection System using Generic Camera, in IEEE Pune Section International Conference 2022 (IEEE PuneCon 2022), IIIT Pune and published in IEEE Xplore. <https://ieeexplore.ieee.org/document/10014873> [Scopus].
36. Meenal Jabde, **C. H. Patil**, Shankar Mali, Amol D. Vibhute (August 31, September 1-2, 2022), Comparative Study of Machine Learning and Deep Learning Classifiers on Handwritten Numeral Recognition, in 7th International Symposium on Intelligent Informatics (ISI-2022), Kerala University of Digital Sciences, Innovation and Technology (KUDSIT), Trivandrum, India and published in Springer in Smart Innovation, Systems and Technologies Series. https://link.springer.com/chapter/10.1007/978-981-19-8094-7_10 [Scopus].
37. Sachin Bhoite, Gufran Ansari, **C. H. Patil**, Surabhi Thatte, Vikas Magar, Krishna Gandhi (29-30 July 2022), Stock market prediction using Recurrent Neural Network and Long-Short-Term-Memory, in Seventh International Conference on ICT for Sustainable Development and published in conference proceedings by Springer LNNS. ISSN: 2367-3370 https://link.springer.com/chapter/10.1007/978-981-19-5331-6_65 [SCOPUS]

Year-2021-22

38. **C.H. Patil**, Amol D. Vibhute, Shankar Mali, Sachin Naik, Nakia Lightwala, Mehul Sherdiwala (June 2022), An IoT based Smart Medicine Dispenser Model for Healthcare, 2022 IEEE World Conference on Applied Intelligence and Computing (AIC 2022) and published in IEEE Xplore. <https://ieeexplore.ieee.org/document/9848934> [SCOPUS]
39. M. S. Sonawane, C. A. Dhawale, **C. H. Patil**, (May 2022) “Enhanced Preprocessing Technique for Degraded Printed Marathi Characters” in First International Conference on Intelligent System and Applications (ICISA-2022) organized by Institute of Artificial Intelligence, Dr. Vishwanath Karad MIT World Peace University during May 4-6, 2022, Pune, India and published in Lecture Notes in Electrical Engineering (LNEE) https://link.springer.com/chapter/10.1007/978-981-19-6581-4_25 [SCOPUS].
40. Mayuri Bapat, S. M. Mali, **C. H. Patil**, (Nov 2021) “Blueprint of Emerging Techniques Used in Sentiment Analysis” in Fifth International Conference on Artificial Intelligence and Soft Computing organized by IDES and the Association of Mechanical and Association of Computer Electrical Electronics and Communication Engineers (ACEECom) during Nov 26-27, 2021, Kochi, India and published in GRENZE International Journal of Engineering and Technology (GIJET) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85143321434&partnerID=40&md5=fe2aacfcba3b38c685f4a7078a2f63c9> [SCOPUS].
41. Nisha Kamble, S. M. Mali, **C. H. Patil**(Aug 2021), “**Use of Blockchain Technology in Agriculture Domain**” in Sixth International Conference on ICT for Sustainable Development organized by Organised and Managed by GR Foundation and KCCI during Aug 5-6, 2021 at Goa, India and published in Lecture Notes in Networks and Systems. https://link.springer.com/chapter/10.1007/978-981-16-5655-2_84 [SCOPUS].

Year-2018-19

42. Aniket Nagane, S. M. Mali, **C. H. Patil**,(2018) ‘Binarization of Degraded Brahmi Script Estampage Images’, International Conference on ‘Changing perspective of Industries with Industry 4.0’ organized by MAEER’s MITSOM College, Pune, on 15th & 17th Jan 2018.
43. **C. H. Patil**, S. M. Mali,(2018) ‘Database Development and Recognition of Handwritten Isolated Marathi Consonants’, International Conference on ‘Changing perspective of Industries with Industry 4.0’ organized by MAEER’s MITSOM College, Pune, on 15th & 17th Jan 2018.

National Conference (Total 27):

1. Amey Pachpande, Vishv Shah, Karishma Shah, Omkar Vaidya, Srushti Variya, **C.H.Patil** (2022) Survey on Handwritten English Character Recognition Methods’ in Third National level students conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2022 organized by MITWPU during 28, Feb 2022 and Published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology | ISSN : 2456-3307 <https://ijsrcseit.com/CSEITCN22867>

2. Mayank Tiwari, Dhananjay Thomble, Atharva Thite, Digvijay Kapurkar, Pranav Surve, **C H Patil** (2022) ‘Literature Review on Presentation Attack Detection using Deep Learning’ in Third National level students conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2022 organized by MITWPU during 28, Feb 2022 and Published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology | ISSN : 2456-3307. <https://ijsrcseit.com/CSEITCN228622>
3. Shashank Arya, Aishwarya Shrivastava, Ragini Pandey, Preerna Shukla, **C H Patil** (2022) ‘Literature Review on IOT Based COVID Detection System’ in Third National level students conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2022 organized by MITWPU during 28, Feb 2022 and Published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology | ISSN : 2456-3307 <https://ijsrcseit.com/CSEITCN228626>
4. Niraj Jain, Ishika Tiwari, **C. H. Patil**, Dheeraj Solankar, Hritwika Dubey, Kashish Roy, Arundhati Dhar (2022) ‘Hacking and Its Vulnerabilities’ in Third National level students conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2022 organized by MITWPU during 28, Feb 2022 and Published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology | ISSN : 2456-3307. <https://ijsrcseit.com/CSEITCN228640>
5. Hrushikesh Walvekar, Shubhangi Gautam, **C.H.Patil** (2021) ‘Smart Card : A Single Card Solution for Multiple Activities’ in Second National level students conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2021 organized by MITWPU during 28, Feb 2021 and published in peer reviewed referred international journal International Journal of Scientific Research in Computer Science, Engineering and Information Technology | ISSN : 2456-3307, 2021.
6. N Francis Maringmei, **C. H. Patil**, (2020) ‘An Analysis of Cryptocurrency, Bitcoin’ in First National level students conference on Innovations in Computer Science and Information Technology Sustanability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
7. Sayali Amrutkar, Sayali Patil, Abhilasha Kumari, Jigneshkumar Mahadik, **C.H.Patil**, (2020) ‘A Study on Cassandra: Data Model’ in First National level students conference on Innovations in Computer Science and Information Technology Sustanability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
8. Bhaskar Mondal, **C.H.Patil**, Balvant Ghanekar, Chirag Kapadia, Chirag Kapadia (2020) ‘Blockchain and Cryptocurrency- The Journey So Far’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
9. Rajan Mourya, **C.H.Patil**, Anuradha Kanade, Shubhangi Gautam ‘Business concept on Renting Vehicle’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
10. Jatin Pakhrani, Ashin Varghese, Shubham Vyas, Himanshu Purohit, **C.H.Patil** (2020) ‘Comparative Study of PC and Gaming Console for Video Games’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
11. Albino Alex Braganza, Amit Gour, Ravi Kumar, **C. H. Patil** (2020) ‘Face Grouping using Haar Cascade Classifier’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
12. Shubham Modi, Pushkar Parmar, Shohrat Ali, Pratiksha Vidhale, **C. H. Patil** (2020) ‘Improving Security in Automatic Teller Machines (ATM) using Biometrics & OTP or IRIS Recognition’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.

13. Ravi Kumar, Kanchan Kumari, Lokesh Kumar, Hitesh Kumar, **C. H. Patil** (2020) ‘Literature Review of IoT & 5G’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
14. Sarvesha Chodankar, Amanda Michael, Siddharth Walke, **C. H. Patil** (2020) ‘Literature review on Web Crawling’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
15. Kritika Sharma, Deeksha Phatte, Raveena Mathkar, Ankush Kumar, **C. H. Patil** (2020) ‘Nanotechnology in Wearable Electronics’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
16. Vineet Mishra, **C.H.Patil**, Nilasha Misra, Nishant Saoji, Parnali Bhide (2020) ‘Security Challenges and Attacks in Wireless Sensor Networks’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
17. Nikita Agarwal, Pooja Kalambe, Prachi Ghag, **C. H. Patil** (2020) ‘Study on Cyber Warfare During 2001-2019’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
18. Vinaya Kulkarni, Shivali Kirdat, Sneha Patil, **C. H. Patil** (2020) ‘Study on Network Security Algorithm’ in First National level students conference on Innovations in Computer Science and Information Technology sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
19. Shiva Vyas, Sneha Joglekar, Jinal Desai, **C. H. Patil** (2020) ‘Virtual Personal Assistants’ in First National level students conference on Innovations in Computer Science and Information Technology Sustainability - 2020 organized by MITWPU during 28, Feb 2020 and published in peer reviewed referred international journal IJERT ISSN-2278-0181, 2020.
20. **C. H. Patil**, Albino Braganza (2019) ‘Review of Blockchain Applications’ at the 8th National Level Conference on Recent Trends in Computer Science and Applicatons (RTCSA-2019) organized by Indira College of Commerce and Science, Pune during 19th and 20th December 2019.
21. **C. H. Patil**, S. M. Mali,(2016) ‘Handwritten Marathi Consonants Recognition using Multilevel Classification’ in Second National conference on Digital Image and Signal Processing, DISP 2016 and published in international journal IJCA, NY, USA ISSN-0975-8887, 2016.
22. **C. H. Patil**, S. M. Mali,(2015) ‘Segmentation of Isolated Handwritten Marathi Words’ in First National conference on Digital Image and Signal Processing, DISP 2015 and published in international journal IJCA, NY, USA ISSN-0975-8887, 2015.
23. **C. H. Patil**, S. M. Mali,(2015) ‘Recognition of Isolated Handwritten Marathi Vowels Using Symmetric Density and Moment Invariant Features’ in First National conference on Digital Image and Signal Processing, DISP 2015 and published in international journal IJCA, NY, USA ISSN-0975-8887, 2015.
24. S. M. Mali, **C. H. Patil** (2015) ‘Marathi Handwritten Numeral Recognition using Zernike Moments and Fourier Descriptors’ in First National conference on Digital Image and Signal Processing, DISP 2015 and published in international journal IJCA, NY, USA ISSN-0975-8887, 2015.
25. **C. H. Patil**, S. M. Mali (2014) ‘A Study on Isolated Marathi Character Recognition’ in National Conference on ‘Challenging Research Areas in Computer Science & Information Technology’ organized by Abeda Inamdar Senior College, Pune, on 10th & 11th Jan 2014.
26. **C. H. Patil**, S. M. Mali (2014) ‘A Novel Approach for Recognition of Handwritten Devanagari Character’ in INNOVATION -2014 organized by University of Pune.
27. **C. H. Patil**, S. M. Mali (2013) ‘A Study on Devanagari Character Recognition’ in INNOVATION - 2013 organized by University of Pune.

Books Published (1)

1. “Theoretical Computer Science” Published by TechTree Educations, Pune

Approved Ph.D. Guide:

Approved Ph.D. Guide at **MIT World Peace University** for Computer Science under faculty of Science from A.Y. 2018-19.

Research Guidance:

Ph. D. Awarded – 3

1. **Ms. Meenal Jabde** – Air-Written Real Time Multilingual Numeral String Recognition - Award date- 10 April 2025 (Dr. Vishwanath Karad MIT World Peace University, Pune MITWPU)
2. **Ms. Atiya Khan** – Seasonal Crop Classification Using Remote Sensing Data: An ANN/CNN Approach - Award date- 15 April 2025 (Dr. Vishwanath Karad MIT World Peace University, Pune MITWPU)
3. **Ms. Archana Mullapudi** – Machine Learning Modeling For Agricultural Drought Assessment In Ahmednagar Region Using Multisensor Remote Sensing Data – Award Date – 13 August 2025(Dr. Vishwanath Karad MIT World Peace University, Pune MITWPU)

Ph. D. Ongoing – 1

1. **Ms. Bhagyashree Pawar** - Towards Automatic English Handwritten One-Line Answer Grading System (Registration– Jan/2024)

Research Areas/Interest:

- Digital Image Processing
- Natural Language Processing
- Signal Processing/ Speech recognition
- Medical Image processing
- Data Mining and warehousing
- Computer Networks
- Design and analysis of algorithm.
- Software Engineering

MOOC Courses Completed:

1. SQL For Data Science July 2020 organized by IBM.

Post Graduate Teacher Recognition:

1. Received recognition as post graduate teacher by University of Pune from 22/07/2014.

On Board:

- Head, School of Computer Science, MIT-WPU.
- Chairman, Board of Studies, School of Computer Science, MIT-WPU.
- Member, Academic Council, MIT-WPU.
- Member, IQAC, MIT-WPU
- Member, BOS, Modern College, Ganeshkhind, Pune
- Member, BOS, Modern College, Shivaji Nagar, Pune
- Member, BOS, New Arts, Commerce and Science College, Ahmednagar
- Member, BOS, MIT Arts, Commerce and Science College, Alandi, Pune
- Member, BOS, H. V. Desai Ars, Com & Science college, Pune

Responsibilities:

- Smooth functioning of School of Computer Science
- Curriculum designing and development.
- Nurturing Research culture in school.
- Contributing in Social Initiatives of MIT-WPU.

Lectures Delivered (7):

1. Resource person for NET/SET guidance workshop organized by Garware College, Pune.
2. Delivered 2 lectures on 26th Dec 2013 in Refresher course in ICT organized by Academic Staff College, Sant Gadge baba Amaravati University.
3. Participated as the resource person in one day workshop on ‘Restructuring of syllabus for BCA / MCA (Com)/ M.Com (E.com) on 6th Feb, 2014 organized by Indira College of commerce and science, Pune.
4. Delivered Guest lecture on 23rd Jul 2011 ‘Programming in C’ at New Arts, Commerce and Science College, Ahmednagar.
5. Participated as the resource person in one-day workshop on ‘Syllabus Designing for second year BBA/ BCA on 10th Mar, 2018 organized by MIT-WPU, Pune.
6. Delivered 2 lectures on 24th Oct 2018 in Refresher course in ICT Application organized by Academic Staff College, Sant Gadge baba Amaravati University.
7. Resource person for National Conference on ‘Emerging Trends in Computer and Information Technology (ETCIT 2019-20)’organized Bhusawal Science Collge, Bhusawal on 23rd Dec 2019.
8. Delivered 2 lectures on 11th Aug 2022 in Refresher course in ICT organized by Academic Staff College, Sant Gadge baba Amaravati University
9. Delivered 2 lectures on 11th Jul 2023 in Refresher course in ICT organized by Academic Staff College, Sant Gadge baba Amaravati University

10.

Testimonials:

1. Letter of appreciation for working as coordinator for Criteria No. 2. Teaching, Learning and Evaluation in NAAC process of MACS College.
2. Testimonial received for working for Ist to XIIth Bharatiya Chhatra Sansad.
3. Letter of Appreciation as a member of Abstract and Souvenir Committee for 17th National Conference of Aerobiological Society.
4. Testimonial received for working for National Teacher Congress.

Training Programmes completed (03):

1. Refresher program completed with ‘A’ grade organized by Academic Staff College, University of Pune, Pune 18th May 2022 to 31st May 2022.
2. Five Day Faculty Development Program (FDP) on “Artificial Intelligence” organized by Institute of AI, MITWPU Pune during 22nd-26th November, 2021.
3. Five Day IEEE SPS Seasonal School-2021 on “AI-Powered IoT for Building Smart Sustainable Signal Processing Application” organized by School of ECE, MITWPU Pune during 15th-19th November, 2021.
4. One week Faculty Development Program (FDP) on “Natural Language Processing (NLP)” organized by Symbiosis International University, Pune during 26th to 30th October, 2020.
5. Two Days National Webinar on “Image Analysis using AI Techniques (IAAI-2020)” organized by Karnataka State Akkamahadevi Women’s University, Vijayapura during 12th to 13th October, 2020.
6. Faculty Development Program on “Co-Creating Innovation in Society organized by MIT-WPU, Pune in association with VU University, Amsterdam(Netherlands).
7. Refresher program completed with ‘A’ grade organized by Academic Staff College, University of Pune, Pune 2015.
8. Orientation program completed with ‘A’ grade organized by Academic Staff College, Sant Gadge Baba Amravati University 2012.

Workshops and Seminar organized (9):

1. State level competitions ‘Tech-Uva’ for Post graduate computer science students in the year 2008, 2009 and 2010.
2. State level competitions ‘Techno-Crat 2010’ for under graduate computer science students.
3. Organizing secretary for One Day Workshop on “Current Research Areas in Computer Science” on 27/04/2011.
4. One day workshop on ‘Credit Based System’ on 30th March 2013.
5. National Seminar on ‘Digital Image and Signal Processing’ on 13th and 14th Feb 2014 funded by University of Pune.
6. Organizing secretary of National conference on ‘Digital Image and Signal Processing-2015’ funded by Savitribai Phule Pune University, Pune.
7. Organizing secretary of National conference on ‘Digital Image and Signal Processing-2016’ funded by Savitribai Phule Pune University, Pune.
8. Co-convener of First National Level Conference on Innovations in Computer Science and Information Technology for Sustainability-2020 (ICSITS 2020) ISBN : 978-93-89739-80-0 organized by SOCS, MITWPU, Pune during 28th February 2020.
9. Co-convener of Second National Level Conference on Innovative Ideas and Invention with Sustainability in Computer Science and IT-2021 ISSN : 2456-3307 organized by SOCS, MITWPU, Pune during 13th March 2021.

Workshops and Seminars Attended:

1. One week e-FDP on Natural Language Processing during 26th to 30th oct 2020 organized by Symbiosis Institute of Computer Science & Research, Pune.
2. National level FDP on “Digital India & Education 4.0” during 17th July 2020 organized by skillslate.
3. National webinar on “Getting Ready for NACC” on 31st May 2020 organized by MITWPU, Pune
4. Fourth National Teachers Congress during 15 to 18 Dec 2020 organized by MITWPU, Pune
5. Four day International conference on “Eradication of Biological and Chemical Weapons” during 23rd to 26th June 2020 orgranized by MITWPU, Pune.
6. Two Days National Webinar on ‘Image Analysis using AI Techniques’ on 12th and 13th Oct 2020 organized by Karnataka State Akkamahadevi Women’s University, Vijayapura.
7. Attended National workshop on ‘Cloud Computing’ organized by Department of computer Science, Yashwantrao mohite college, Bharati Vidyapeeth University, Pune on 18th February 2015.
8. Two Days State Level Workshop on ‘Writing Research Paper using Latex’ on 11th and 12th Feb 2014.
9. ‘Advances in Computer Science and Information Technology (ACSIT-13) organized by Bharati Vidyapeeth Deemed University, Pune.
10. ‘Computing, Communication and Information Technology’ (CCIT 2013) organized by Bharati Vidyapeeth Deemed University, Pune.
11. National Seminar on Digital Image Processing and Character Recognition organized by Bharati Vidyapeeth Deemed University, Pune on 28th and 29th Feb 2013.
12. Implementation of M.Sc.(CS) and MCA (Sci) syllabus on 3rd Sep 2013.
13. Seminar on Current and Future Trends in Information Technology 2012 organized by MITSOM College, Pune.
14. ‘Software Project Management and Innovative Practices’ organized by Bharati Vidyapeeth Pune on 26th Feb 2011.
15. ‘Virtualization of Computer Laboratories’ organized by SIMCA, Pune.
16. One Day workshop on Upcoming Technologies on 27th Aug 2011.
17. International conference MITSOM College

Other Duties performed:

1. ERP – Coordinator for Liberal Arts, Science and Commerce.
2. Chairman, Board of Studies, Computer Science, MIT-WPU
3. Appointed as College Examination Officer from Academic Year 2012-13 to 2014-15.
4. Appointed as Director IQAC from Academic Year 2016-17.
5. Appointed as Institute IT coordinator for MACS College from Academic Year 2015.
6. Appointed as Convener of Alumni Association of MACS College for Academic Year 2015-16.
7. Appointed as Observer for SET examination 2011-12 organized by University of Pune.
8. Course – Coordinator, B.Sc. (Computer Science) for Academic Year 2009-10.
9. Convener – Criterion II - Teaching Learning for NAAC.
10. Chairman – UGPG PET 2020.
11. Chairman – UGPG PET 2021
12. Chairman – Entrance Examination Committee 2022 – MITWPU
13. Chairman – Entrance Examination Committee 2023 – MITWPU

14. Admission Convener for School of Computer Science – 2019,2020,2021,2022,2023,2024

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