

Curriculum Vitae of Dhananjay Ramrao Kalbande

Designation :	Professor and Head				
Department :	Computer Science and Engineering				
Current Employee	Bharatiya Vidya Bhavan’s Sardar Patel Institute of Technology, Mumbai.				
Date of Joining the Institution :	11 th Aug. 2000				
Qualifications:	UG	B.E. Computer	Nagpur Univ.1997		
	PG	M.E. Info.Tech.	Mumbai Univ.2005		
	Ph.D.	Ph.D (Technology)	Mumbai Univ.July 2011		
Post-PhD Qualification:	P.D.F.	Post-Doctoral Fellow	Tata Institute of Social Sciences (TISS), Mumbai. 2016-17(UPSPS- Analytical Study of Uttar Pradesh Samajwadi Pension Scheme, Govt.of India.)		
	S.R.F.	Senior Research Fellow	Tata Institute of Social Sciences (TISS), Mumbai From July 23,2016 to Oct 10, 2016 On the project (TARANG) funded by National Commission for Women(NCW),Govt. of India.		
	Research Fellowship	Fellowship	Tata Trust & M.I.T.(U.S.A.)on CLIX-Project From Feb 20,2017 to May 19,2017		
Total Experience in years :	Teaching	Admin	Industry	Research	Entrepreneur/Star t-up
	22.9 Years	+10 Years HoD [CE} Apr.2012 to 31 st Oct.2019 Dean : Jan 01,2017 to Oct 3 rd 2022.[5.9 years] HoD [CE}4 th Oct to 17 th Feb 2023 HoD [CSE}18 th Feb 2023 to till date	6 Months	+ 12 years	Health-tech Startup(Skinzy), Mar 12, 2018 to till date
Papers Published:	National	International			
	8	135			
Patents	Published	Granted			
	8	1			
Books Published	6 1. Graphical User Interface (GUI) (Elective Subject) for B.E. IT branch, Published By Pareen Publication, Mumbai. 2. Management Information System(MIS) for B.E. I.T & Computers branch, Published By Pareen Publication, Mumbai. 3. Human Machine Interaction ,By Wiley Publications,2015 4. Digital Forensic , By Wiley Publication,2016,Re-print(2019)				

	5. Internet of Everything , By StarEdu Solutions(USA)-(2020) 6. UI Design:Key to Captivate User Understanding by SYBGEN in Jan 2021.
Professional Memberships :	IEEE (93816789), ACM(3842437)
Consultancy Activities :	1. Developed and maintaining Engineering Examination Software under Sardar Patel Consultancy Services of S.P.I.T. since from 2005 to 2010. 2. Consultant for software development of smart and AI based travel website in the year 2014. 3. Consultant for software development of LMS system in the year 2014. 4. Consultant for software development of construction website in the year 2014.
Grants fetched :	1.Received Sanctioned Letter from UGC for Minor research Project 2012-13 2. Grant from National Science & Technology Entrepreneurship Development board (NSTEDB), DST, Govt. of India, New Delhi. 3. University Research Grant for the year 2010-2011. 4. University Research Grant for the year 2011-2012. 5. (Co-investigator) University Research Grant for the year 2013-2014.
Interaction Inside the Institute:	1. IEDC Advisor for DST Granted Projects in S.P.I.T. 2. R&D committee member of S.P.I.T. 3. E-cell Chair (2009 to till date) 4. Industry institute interaction (IIC) Cell chair (2014 to till date) Handling internship activities with startups/companies with which MoU has been made. 5. President . Institute Innovation Cell under aegis of MHRD's GOI,Innovation Cell May 2018 to 3 rd Oct 2022.
Interaction with the Professional Institution:	1. Reviewer at various National & International Conferences like IEEE/ACM/Springer and Journal: Elsevier 2. Member of LIC committee of University of Mumbai. 3. Member of Syllabus committee for designing course curriculum (UG and PG) of University of Mumbai. 4. Member of Result Moderation Committee of University of Mumbai. 5. Examiner for M.E. and Ph.D. thesis evaluation in Computer Engg. And Information Technology. 6. Expert and resource person to deliver and conduct the talk on accreditation process and evaluation of SAR 7. Expert to evaluate the Result Processing Software for MSBTE, Mumbai, India. 8. Technical Expert in the Scrutiny Work assigned by the AICTE, New Delhi, India. 9.Ex-Member ,Adhoc Board of Studies, Computer Engineering,, University of Mumbai 10.Ex-Chairman,Adhoc BOS, M.C.A., University of Mumbai. 11. Subject Expert and VC-Nominee Member for conducting Interviews of University Staff Selection Committee (USSC) of University of Mumbai. 12. Member, Scrutiny Committee, Affiliation Section, University of Mumbai. 13.Co-Coordinator(Mumbai Sub-urban), AVISHKAR,University of Mumbai. 14.Advisory Board: ICICC-2019 Springer Conference, New Delhi. 15: As mentor in Maharashtra State Skill Development Society (MSSDS) in association with National Skill Development Corporation (NSDC) for state level skill competition for level 3 at L&T STA Madh, Oct 2021.

Subjects taught till today	UG (B.E. /B.Tech. Level) : C++,Java: Programming Language, Computer Arch.& Organization Computer Networks, Advanced Microprocessor, Neural Network & Fuzzy Systems, .Human Computer Interaction/HMI, Artificial Intelligence and Soft Computing P.G.(M.E./M.Tech Level) : MIS,.E-business Technology, Decision Making & Adaptive Business Intelligence, Advanced Soft Computing, User Experience Design,NNFL. PhD: Modules in Research Methodology and Course work
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Workshop/STTP/Seminar conducted and coordinated	23 1. Conducted one month training program on Office Automation in Bharati Vidyapeeth Institute of Technology, Navi Mumbai. 2. Conducted two days short term course on Data Mining & Warehousing in Sardar Patel college of Engineering, Mumbai. 3. Conducted Workshop on Network Simulator at Thakur College of Engineering And Technology, Mumbai 4. Conducted and trainer for the two-days workshop on Neural network & fuzzy logic from 20th & 21st March.2009. 5. Coordinated & conducted the two-week Application development certificate programme (STTP) on VB.Net & ADO.Net from 22nd June to 4th July.2009. 6. Coordinated & conducted the 8-days Application development certificate programme (STTP) on VB.Net & ADO.Net from 22nd Aug to 1st Sept.2009. 7. Coordinated 1-day workshop on software testing on 12th march 2010 8. Coordinated & Conducted the 2-days Application development certificate programme (STTP) on VB.Net & ADO.Net from 6th to 7th march 2010. 9. Conducted a session on PC Assembly organized by CSI S.P.I.T. Chapter on 14th March 2010 10. Coordinated and conducted the 2-days workshop on Neural Network & Fuzzy Logic (NNFL) from 27th to 28th March 2010. 11. Coordinated and conducted one week STTP on VB. Net & ADO .Net from 7th to 15th Aug 2010. 12. Conducted a session on Network Simulator 2.0 at ISTE approved workshop in THAKUR ENGG.COLLEGE, Kandivali,Mumbai. 13. Conducted seminar on “Designing Neural Network using Java Object Oriented Neural Engine (JOONE) and Neural Easy Tool for Pattern Recognition” on 24th February 2010 under the national state level seminar on “Artificial Intelligence and its Application” organized by Modern College of Engineering with University of Pune under QIP. 14. Coordinated & Conducted the 4-days Application development certificate programme (STTP) on VB.Net & ADO.Net from 7th Aug to 11th Aug 2012 15. Coordinated the 3-days Application development certificate programme (STTP) on Ruby on Rails from 15th Sept to 17th Sept 2012. 16. Coordinated and conducted the 2-days workshop on Human Computer Interaction from 16th and 17th Feb. 2013. 17. Coordinated and conducted the 2-days workshop on Soft Computing and Neuro Morphic Engineering from 7th and 8th Feb. 2014. 18. Conducted two days session in one week ISTE approved STTP on Outcome Based Education : Accreditation and Quality Assurance from 17-21 Nov 2014 at Fr.CRCE,Bandra,Mumbai. 19. Conducted one day workshop on Outcome Based Accreditation and Academic Learning Process on 16th Jan 2015. 20. Coordinated and conducted the 2-days workshop on Soft Computing and its practices from 10th and 11th July. 2015. 21. Coordinated and conducted the 5-days workshop on Emerging technologies
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	from 22nd Dec 2016 to 27th Dec. 2016. 22. Conducted Tutorial on Transfer Learning at Pre- Conference Symposium of ICICC-2019(Springer Sponsored) , at Guru Nanak Institute of Management, New Delhi, India on 16th March 2019. 23. Conducted webinar on “AI in Health Sector” on 9th June 2020 at Shah and Anchor Kutchhi Engineering College, Mumbai, India.
Continuous Education Program /FDPs	1. Attended One day CEP on IDD Design Methodology at IIT Bombay in Dec 2009. 2. One week ISTE approved STTP on Digital Forensic from 11-5 Nov.2014 at Fr.CRCE, Bandra, Mumbai. 3. Participated and completed Online FDP on “Data Science “ from 7th Sept to 11th Sept 2020 at School of IT , RGPV, Bhopal, MP, India. 4. Participated and completed Online FDP on “Medical Image Processing and Deep Learning technologies “ from 21st Sept to 25th Sept 2020 at Panimalar Inst.of Technology, India.
Industrial Training / Workshop	1. Delivered hands-on on Net. Simulator in ISTE approved workshop at Thakur Engg. college. 2. Delivered Seminar on “Designing Neural Network using JooNE “at Modern Engg.Coll, with Univ. Of pune, under QIP grant. 3. Attended 3 days International Conf. on Operation Management organized by SOMS, at NITIE from 17-19 Dec.2010 4. Delivered Expert Talk on Research Proposal Preparation and current research trends in 2-days workshop on “Research Proposal and Technical Paper writing” organized by S.P.I.T., 10,11 April 2015. 5. Delivered a talk on Research Proposal Writing and Current Research Trends in One Day National Workshop on “Trends in Big Data and Hadoop” organized by Pillai HOC COET,Rasayani on 11th April 2015. 6. Delivered Expert Talk on Research Proposal Preparation and current research trends in 2-days workshop on “Research Proposal and Technical Paper writing” organized by S.P.I.T., 8th and 9th April 2016. 7. Delivered Expert Talk on “CO-PO Attainment” in ISTE Approved One week STTP on Outcome Based Education - Innovative Teaching Learning Practices and Evaluation 2nd May to 06th May, 2016, SPIT, Mumbai. 8. Delivered a talk on “Articulation of CO” in AICTE-ISTE Induction/Refresher Programme on 3rd May to 9th May 2018. 9. Attended two days workshop on AI/ML by IEEE Bombay Section, at NITIE 10th and 11 th Aug.2018. 10. Coordinated Seminar on Shaping a Data science curriculum: Unleashing Potential of Big Data ,IoT, Machine Learning and AI by SAS Institute and SPIT on 27/11/18 to 29/11/2018. 11. Attended 4-days Online Course on Examination Reforms conducted during 22-25 April, 2020 organized by AICTE. 12. Attended 3-days Digital Symposium on AI for India from 26th Aug to 28th Aug.2020 by JIO, AI Division India.

List of Publications and Research:

NATIONAL JOURNAL[02]

1. D.R.Kalbande, Dr.G.T.Thampi, S.Sawalekar,” TPM “Total productive Maintenance“: A case study in Manufacturing Industry”, IIIE (National Journal of Indian Institute of Industrial Engineering) Journal,India Oct .2010.
2. Anjali Shrikant Yeole and Dhananjay Ramrao Kalbande , "IoT Technology Stack: Whole Host of Technology", CSI Communications, Volume No 44 , Issue No. 1, April 2020 , special issue on Internet of things

INTERNATIONAL JOURNAL [35]

1. D.R.Kalbande, Dr.G.T.Thampi, “Multi-attribute and Multi-criteria Decision Making Model for technology selection using fuzzy logic”, Technia – International Journal of Computing Science and Communication Technologies, IJCSCT Vol. 2, Issue 1, India ,July 2009.
2. D.R.Kalbande, Manish Singh ,“Incidence Handling & Response System”, International Journal of Computer Science & Information Security IJCSIS, Vol. 2, June 2009, ISSN 1947-5500.(IMPACT FACTOR: 0.423)
3. D.R.Kalbande, Dr.G.T.Thampi ”Fuzzy neural model (FNM) for selecting ERP Technologies in a ongoing project settings”, Issue in CiiT International Journal of Artificial Intelligent Systems and Machine Learning Print: ISSN 0974 – 9667 & Online: ISSN 0974 – 9543, Nov. 2009 , (DOI: AIML112009005, IMPACT FACTOR: 0.763)
4. Shekhar Shah,D.R.Kalbande,Rudani,Presha Shah ,“Algorithm to access Office Files on Mobile Phones, Proceedings of International Journal of Computer Application (IJCA), ISSN: 0975 8887, Number 3, Article -4 March 2011 and also Published by Foundation of Computer Science. BibTeX
5. D.R.Kalbande, Dr.G.T.Thampi , ”An Empirical Formulation of cost of technology acquisition and cost reduction: A case study in Manufacturing Industries ,International Journal of Industrial Engineering and Technology (IJIET), March 2011., ISSN 0974 -3146 Volume 3, Number 2(2011),pp.215-222.
6. D. Kalbande, N. Deotale, P. Singhal, S. Shah, and G. Thampi, “An Advanced Technology Selection Model using Neuro Fuzzy Algorithm for Electronic Toll Collection System”, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 2, No. 4, 2011 ,pp.97-104. Impact Factor: 1.324
7. D.R.Kalbande, Harsh Panchal,Nisha Swaminathan ,Preeti Ramraj, ”ANFIS Based SPAM Filtering Model for Social Networking Websites”, *International Journal of Computer Applications* 44(11):32-36, April 2012. Published by Foundation of Computer Science, New York, USA.,DOI : 10.5120/6310-8635 ISSN: 0975 – 8887
8. Smita Patil, Yogita Mane, Kanchan Dabre, Puneet Devan, D.Kalbande,”An efficient Recommender System Using Collaborative Filtering Method with K-Means Approach” , International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622,Mar’12, Page no. 30-35.Impact Factor: 5.011
9. Priyanka Kulkarni, D.R.Kalbande, Neelam Gulrajani, Srinath Warrior “Smart Card based Android Application for Public Transport Ticketing System”, *International Journal of Computer Applications* 60(11):29-32, December 2012. Published by Foundation of Computer Science, New York, USA,DOI: 10.5120/9738-4289. ISSN:0975-8887
10. Mahendra Mehra,Kailas Devadkar, Dhananjay.R.Kalbande, ”Mobile Cloud based Compiler : A Novel Framework For Academia”, International Journal of Advancements in Research & Technology,Volume 2,Issue4,April 2013 Page 445 ISSN 2278 7763.
11. Nilakshi Jain , Dr. Dhananjay R Kalbande, “Physical and Cyber Crime Using Digital Forensic Approach : A Complete Digital Forensic Tool”, accepted in Springer Book "Advances in Computing and Management" 2016 proceedings .

12. Nilakshi Jain , Dr. Dhananjay R Kalbande ,”A Comparative Study Based Digital Forensic Tool A Complete Automated Tool”, IJoFCS-International Journal of Forensic Computer Science ,Vol-09, Issue-01, pp 15-22 , October-2014 ISSN: 1980-7333.
13. Nilakshi Jain , Dr. Dhananjay R Kalbande ,Digital Forensic Models: A Complete Literature Review Published paper in IJSRD-International Journal of Scientific Research & Development Vol-01, Iss-01, Mar-2013 ISSN: 2320-7477.
14. Nilakshi Jain , Dr. Dhananjay R Kalbande ,Comparative Digital Forensic Model ,Published paper International Journal of Innovative Research in Science, Engineering and Technology Vol. 2, Issue 8, August 2013 ISSN: 2319-8753.
15. D.R.Kalbande,Surendra Rathod, “ Software development for Course and Program Outcome attainment” presented and published in Journal of Engineering Education Transformations, Volume, No, Month 2015, ISSN 2349-2473, eISSN 2394-1707, at College of Engineering ,Pune. ,Jan 2016, DOI: [10.16920/jeet/2016/v0i0/85634](https://doi.org/10.16920/jeet/2016/v0i0/85634) .
16. Surendra Rathod,D.R.Kalbande “Improving Laboratory Experiences in Engineering Education”, presented and published in Journal of Engineering Education Transformations, Volume, No, Month 2015, ISSN 2349-2473, eISSN 2394-1707, at College of Engineering ,Pune. ,Jan 2016, DOI: [10.16920/jeet/2016/v29i4/90712](https://doi.org/10.16920/jeet/2016/v29i4/90712)
17. Mrs. Aarti M. Karande, Dr. D.R. Kalbande,” Soft Computing Approach for Measuring Business Process Agility in an Agile Environment”, International Journal of Computer Applications (0975 – 8887), Foundation of Computer Science (FCS), NY, USA ,June 17. DOI: 10.5120/ijca2017914534
18. Aarti Karande, D.R.Kalbande ,” Selection of Enterprize Architecture based on agile parameters for SCM-based Case Study” , published in Scholedge International Journal of Business policy & Governance ,ISSN: 2394-3351, Vol04, Issue 05(2017) Pg.36-55.DOI : 10.19085/journal.sijbpg040501
19. Aarti Karande, D.R.Kalbande ,” Agile Parameter Affecting Supply Chain Mangement Strategy”, published in Int.Journal of Supply Chain Mgmt., Vol.6, No.4, Dec 2017.ISSN : 2050-7399.
20. Ms Seema Kolkur, DR Kalbande, Vidya Kharkar,” Machine learning approaches to multi-class human skin disease detection”, published in International Journal of Computational Intelligence Research,2018.
21. Swati Kulkarni, Dhananjay Kalbande, Surekha Dholay and Avinash Sharma,” Cost Optimized Hybrid System in Digital Advertising Using Machine Learning,” Journal of Computational and Theoretical Nanoscience(JCTN)-Apr.2019.
22. Deepak Kapgate, Dhananjay Kalbande, Urmila Sharwankar, An optimized facial stimuli paradigmfor hybrid SSVEP+P300 brain computer interface” Journal of Neurosurgical Sciences, Publisher - EDIZIONI MINERVA MEDICA, July 2019. DOI : 10.23736/S0390-5616.19.04755-6, ISSN : 1827-1855, Science Citation Index Expanded (SCIE) & SCOPUS.
23. Deepak Kapgate, Dhananjay Kalbande, Urmila Sharwankar , “Adaptive classification to reduce non-stationarity in visual evoked potential brain-computer interfaces” , Bio-Algorithms and Med-Systems Journal, July 2019 , Publisher - WALTER DE GRUYTER, DOI : 10.1515/bams-2019-0020, ISSN: 1896-530X, ESCI (Thomson & Reuter)& SCOPUS.
24. Dr.Anjali Yeole Dhananjay Kalbande ,” Security and privacy issues in IoT devices and sensors networks:Machine learning to the rescue” , at Springer book titled “Internet of Things, Smart Computing and Technology :A road map ahead” from ‘Studies in System, Decision , and control’, Springer Book Series (Scopus Indexed”, Abstract accepted for Jan 2020 book series.

25. Surekha Arjapure, Dhananjay Kalbande," Pothole detection using Deep Learning classifiers", at International Journal of Recent Technology and Engineering (IJRTE),Scopus Indexed ,ISSN: 2277-38378, Vol-8, March 2020.DOI: 10.35940/ijrte.F7349.038620
26. Dhananjay Kalbande; Rohit Naik; Janvi Jatakia; Uday Khopkar," An artificial intelligence approach for the recognition of early stages of eczema" , at International Journal of Medical Engineering and Informatics, Inderscience Publisher, 2020 Vol.12 No.1, pp.52 – 61, DOI: 10.1504/IJMEI.2020.105656.
27. Vedant Kumar, Siddhant Kumar, Parth Shingala, Pradhuman Singh, Dhananjay Kalbande," AI Powered Holistic Solution for Travelers During Pandemic", at International Journal of Engineering and Advanced Technology (IJEAT), (Scopus Indexed), Volume-9 Issue-6, August 2020, DOI: 10.35940/ijeat.F1428.089620.
28. Vrushali Joshi, Sarah Hawa, Shriya Akella, Shrishti Kaushik, Dhananjay Kalbande," Analysis of Therapy Transcripts using Natural Language Processing," at International Journal of Engineering and Advanced Technology (IJEAT),(Scopus Indexed), Volume-9 Issue-6, August 2020.
29. Garima Kaushik, Shaney Mantri, Shrishti Kaushik, Dr Dhananjay Kalbande, Dr B. N. Chaudhari. "ANALYSIS OF EFFECTIVENESS OF QUARANTINE MEASURES IN CONTROLLING COVID-19." Journal of Critical Reviews 7.13 (Aug. 2020), 1655-1665. Print. doi:10.31838/jcr.07.16.261., <http://www.jcreview.com/index.php?mno=98957>., Also available at : medRxiv preprint doi: <https://doi.org/10.1101/2020.04.21.20074245>.
30. Asha Bharambe, Dhananjay Kalbande, "Prediction of Dengue Outbreaks in Mumbai Region Based on Disease Surveillance and Meteorological Factors using Big Data Approach" ,in INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Year: February 2022 | Volume: 8 | Issue: 9 | Page No: 613-620.
31. Shwetambari Borade,Dhananjay Kalbande, ," Framework for Cosmetic skin disease detection using Machine Learning and Extreme Gradient Boosting" in JETIR - Journal of Emerging Technologies and Innovative Research(UGC Care) June 27,2022.
32. Shwetambari Borade,Dhananjay Kalbande, Kristen Pereira, Rushil Patel, Sudhanshu Kulkarni , "Deep Scattering Convolutional Network for Cosmetic Skin Classification" ,SSRG-International Journal of Engineering Trends and Technology (IJETT)", ISSN: 2231-5381. Scopus Indexed.2022, DOI: 10.14445/22315381/IJETT-V70I7P202, July 2022.
33. Renuka Pawar, Dhananjay Kalbande " Optimization of Quality of Service Using ECEBA Protocol in Wireless Body Area Network" in International Journal of Information Technology., SpringerNature Journal (Scopus), Dec 2022.
34. Jignesh Sisodia, Dhananjay Kalbande, "Video Analytics based multi-symptoms system for determining progression of Parkinson Disease" International Journal of Biomedical Engineering and Technology, Inderscience,ISSN 1752-6426. E SCI, Scopus Indexed.
35. Renuka S. Pawar, Dhananjay R. Kalbande, "Privacy-Preserving Mechanism to Secure IoT-Enabled Smart Healthcare System in the Wireless Body Area Network", International Journal of Computer Networks and Applications (IJCNA), 9(6), PP: 746-760, 2022, DOI: 10.22247/ijcna/2022/217707.

NATIONAL CONFERENCE [6]

1. D.R.Kalbande, "MIS for Knowledge Management in the organization" ,National Conference at Bannari Amman Inst.of Technology, Tamil Nadu, India, 2005.
2. D.R.Kalbande,"Network Intrusion and detection Mechanism" , National Conference at Govt.College Engg., Aurangabad, 2005.
3. D.R.Kalbande ,"A Novel Idea to speed up the customer business in the context of Indian railways" , K.J.Somaiya College of Engineering, Mumbai, 2006.
4. Swati Iyer, Neelam Gulrajani, D.R.Kalbande, "Systolic Arrays and Recursion : A new approach for matrix multiplication", National Conference on "Recent Advances in Computer Vision and Information Technology", Government College of Technology, Coimbatore, March 2010.

5. S.khan,D.R.Kalbande,“Machine Learning model for Efficient Product Categorization” ,National Conference on Eco-Friendly Technologies for sustainable growth,ICEFT-14, March 27-28 2014 at MHSSCOE,Mumbai,India.
6. Dhananjay Kalbande, Parth Dedhia, Nikhil B, Arban G, Darshan S, Dr.Uday Khopkar, “Artificial Intelligence Enabled Method for predicting Acne-Non Acne” , National Conference on Artificial Intelligence in Health Informatics and Virtual Reality on **31st August 2019 at Tata Institute of Social Sciences,Mumbai.,**

*** SECOND PRIZE WINNER AT TISS,AUG.2019.**

INTERNATIONAL CONFERENCE [100]

1. Dhananjay Kalbande.G.T.Thampi,“Identifying the research areas in the realm of “Information technology in Manufacturing” ,JMI University, Delhi in Jan 2006.
2. Dhananjay Kalbande, Dr.Gopakumran Thampi, “Neuro-Analytical Hierarchy Process (NAHP) Approach for Selecting ERP Technologies in a Ongoing Project Settings”,3rd IEEE International Conference onComputer Science and Information Technology (IEEE ICCSIT 2010) ,July 9-11, 2010,Chengdu ,China. ,IEEE Catalog Number:CFP1057E-PRT , Vol.4, ISBN: 978-1-4244-5538-6, Library of congress :2009938342.
3. Dhananjay Kalbande and Dr. Gopakumaran Thampi, Priyank Singhal, SumiranShah, ”Zip it Up SMS :- A Path breaking Technology Model in the field of Mobile Messaging”.3rd IEEE International Conference on Computer Science and Information Technology, (IEEE ICCSIT 2010) ,July 9-11 2010,Chengdu ,China.,IEEE Catalog Number:CFP1057E-PRT , Vol.4,ISBN: 978-1-4244-5538-6,Library of congress :2009938342.
4. Dhananjay Kalbande and Dr. Gopakumaran Thampi,“Total Productive Maintenance –Accelerating OEE in a Manufacturing Industry leveraging pervasive technologies”.IEEE International conference on Manufacturing Science & Technology (ICMST 2010), Kuala Lumpur, Malaysia 26-28 Nov 2010. (IEEE Catalog Number:CFP1045L-PRT , Vol.4, ISBN: 978-1-4244-5538-6)
5. Dhananjay Kalbande,Aakash Mishra,Sanjivani Patil,Sneha Nirgudkar,Prashant Patel,”Lip Reading Using Neural Networks”.IEEE 2010 International Conference on Graphic and Image Processing (ICGIP December 2010) Manila, Philippines. Proc. SPIE 8285, 828519 (2011); doi:10.1117/12.913406
6. Nilesh Deotale,Dhananjay Kalbande,Aakash Mishra, ”Energy Conservation using Face Detection. Published in IEEE 2010 International Conference on Graphic and Image Processing (ICGIP December 2010) Manila, Philippines. Proc. SPIE 8285, 828526 (2011); doi:10.1117/12.913489
7. Dhananjay Kalbande and Dr. Gopakumaran Thampi ,”Demonstrating Creation of an Empirical Formula from the First Principle: A Case Study in Manufacturing Industries”,International Conference on Development And Applications Of Statistics InEmerging Areas Of Science & Technology December 8-10, 2010 (ICDASEAST 2010),University of Jammu, Jammu-180006, India.
8. Dhananjay Kalbande and Dr. Gopakumaran Thampi ,“An Empirical Relationship Of Cost Of Technology Acquisition And Cost Reduction In Manufacturing Enterprises.”,IEEE 2011 3rd International Conference on Computer Modeling and Simulation (ICCMS 2011) Mumbai, India. (IEEE catalog no. CFP1197F-ART, ISBN: 978-1-4244-9243-5).
9. Dhananjay Kalbande,Dr.Gopakumaran Thampi ,”Leveraging Agility in Business Processes using E-Procurement”, Accepted for publication in IEEE 2011 3rd International Conference on Machine Learning and Computing (ICMLC 2011)Singapore, February 26-28, 2011(ICMLC SINGAPORE FEB.2011 ,IEEE PRESS.).
10. Dhananjay Kalbande,Dr.Gopakumaran Thampi,P.Singhal , ”Preprocessing Selection Of Enterprise Resource Planning Applications In Small Manufacturing Industry And Its Impact On Business Process

Agility”,2011 International Conference on Software and Information Engineering MALAYSIA JUNE 2011.(ICSIE MALAYSIA 2011 ASME PRESS). DOI: <http://dx.doi.org/10.1115/1.859735.paper71>

11. Dhananjay Kalbande,Dr.Gopakumaran Thampi, "E-procurement for increasing business process agility",International Conference & workshop on Emerging Trends and Technology (ICWET -ACM MUMBAI 25-26 Feb 2011) ,ACM International Digital Library,SIGART,USA. ISBN: 978-1-4503-0449-8 , DOI :10.1145/1980022.1980187
12. Dhananjay Kalbande,Sanket Bhoir, Sneha Nirgudkar, Sanjivani Patil, "Neural Network Based Empirical Model Development for E-Business (Mobile) Application.", International Conference & workshop on Emerging Trends and Technology(ICWET -ACM MUMBAI 25-26 Feb 2011) ,ACM International Digital Library, SIGART, USA.ISBN: ISBN:978-1-4503-0449-8,DOI:10.1145/1980022.1980353
13. Dhananjay Kalbande, Shekhar Shah, Presha Shah, Jigar Rudani, "Algorithm to access Office Files on Mobile Phones",International Conference & workshop on Emerging Trends and Technology(ICWET -ACM MUMBAI 25-26 Feb 2011) , and ACM, New York NY(USA), ISBN :978-1-4503-0449, DOI:10.1145/1980022.1980112
14. Dhananjay Kalbande,Dr.Gopakumaran Thampi,"An approach to eliminate Self-gratifying Technology (SGT) in manufacturing industry: A case study and critical Research Review.",International Conference Data Management(ICDM -IMT Ghaziabad,India,November 2011.
15. Dr.Dhananjay Kalbande ,Chaitali Shah, Apporva Nigam,Priti Kothawade, "Integrating ERP to Accelerate Business Process Agility: A Case Study and Critical Research Review in Indian Pharmaceutical Industry", IEEE-2012,ICCICT-19-20 Oct. 2012,Mumbai,India.**Print**ISBN: 978-1-4577-2077-2, DOI : 10.1109/ICCICT.2012.6398116
16. Kalbande D.R.,Khan Sumaiya,Thampi G.T., "Neuro Analytical Hierarchy Process (NAHP) Approach for CAD/CAM/CIM Tool Selection in the Context of Small Manufacturing Industries", IEEE-2012, International Conference ,ICCICT-2012,Mumbai,India.**Print ISBN**: 978-1-4577-2077-2, DOI : 10.1109/ICCICT.2012.6398139,
17. Pisolkar Pranali, Parmar, Sneha; Poojari, Chitra; Kalbande,Dhananjay, "Satellite Positioning Simulation System", IEEE-2012, International Conference ,ICCICT-2012,Mumbai,India.DOI: 10.1109/ICCICT.2012.6398141_Year: 2012 , Page(s): 1 – 4.
18. Mhapsekar Aditi; Kulkarni, Priyanka; Nagarsekar, Uma;Kalbande, Dhananjay R., "Voice enabled Android application for vehicular complaint system: Using GPS and GSM-SMS technology", IEEE sponsored International Conf. on Information and Communication Technologies (WICT), Trivendrum Oct 30, 2012_ DOI: 10.1109/WICT.2012.6409133_Publication Year: 2012 , Page(s): 520 – 524.
19. Alifiya Bhanapurwala,Subhashree C,Aishwarya V, D.R.Kalbande ,"Demonstration of Signature Analysis using Intelligent Systems",3rd International Conference on advances in Computing, communication and control ,Springer 18-19 Jan 2013. Volume 361, 2013, pp 199-206, DOI:10.1007/978-3-642-36321-4_18,Print ISBN: 978-3-642-36320-7,Online ISBN:978-3-642-36321-4
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24. Deepshikha H., Dr. D.R. Kalbande, "Review of Mobile Data Offloading through Wi-Fi", IEEE Conference (CSCITA –Approved by IEEE), April 4-5 2014, Mumbai.
25. Aarti Karande, Dr. D.R. Kalbande, "Web service selection based on QoS using Feedforward Neural Network", International Conference ICICT-2014, IEEE Delhi Section, in KIET, Gaziabad, Year 2014-15.
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88. Shwetambari Borade, Dhananjay Kalbande,” Survey paper based critical reviews for Cosmetic Skin Diseases”, presented in IEEE sponsored International conf. On Artificial Intelligence and smart systems (ICAIS) Mar 2021. DOI: 10.1109/ICAIS50930.2021.9395803
89. Sahai Vedant, D’Costa Jason, Srivastava Mayank, Mehra Mahendra, Kalbande Dhananjay, ” Leveraging Deep Learning and IoT for monitoring COVID19 Safety Guidelines within College Campus” presented in 10th International Conference, IACC 2020, Panaji, Goa, India, December 5–6, 2020,published in Book seriea in Avanced computing, Springer, ISBN: 978-981-16-0401-0
90. Tejas Chheda, Soumya Kopakka, Rithvika Iyer ,Dhananjay Kalbande "A Survey on Object Detection, Annotation and Anomaly Detection Methods for Endoscopic Videos" ,presented in 14-16 Oct 2020 5th IEEE International Conference on Computing, Communication and Security (ICCCS) Oct 2020. DOI: 10.1109/ICCCS49678.2020.9277436
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2021-22

92. Anagha Pasalkar, Dhananjay Kalbande, „Prediction and Analysis of Recurrent Depression Disorder: Deep Learning Approach”, presented in 2nd Congress on Intelligent Systems (CIS 2021) organized by Soft Computing Research Society (SCRS Book Series) and CHRIST (Deemed to be University), Bengaluru , India ,during September 04-05, 2021.
93. Dhananjay Kalbande, Pulin Prabhu,Anisha Gharat, Tania Rajabally,” A Fraud detection system using Machine Learning”, presented in the 12th IEEE international conference on computing, communication and networking technologies (ICCCNT), IIT Kharagpur,West Bengal, India, during 6th & 8th July, 2021.

94. Dhananjay Kalbande ,Anuradha Majumdar , “Deep Learning approach for early diagnosis of jaundice” , presented at ICICC 2022-International Conference on Innovative Computing and Communication (ICICC), publication by Springer , 20th Feb 2022.
95. Ishita Badole, Sakshi Chheda, Ojasa Chitre, Dhananjay Kalbande, “Performance Analyzer for Blue Chip Companies”, accepted for presentation at ICDSAI,International conference on Data science and Artificial Intelligence, organized by Indian Institute of Technology, Patna in collaboration with NITIE, India,23-24 April 2022.

2022-23

96. Pranav Chitale, Tanvi Dhope ,Dhananjay Kalbande, “ Capturing Cross-view Dynamics Using Recurrent Neural Networks for Multi-modal Sentiment Analysis" presented at International Conference on Intelligent Systems and Human Machine Collaboration 2022, Mumbai, India Springer Nature, 8-9 July 2022.
97. Shubham Thaker, Dhananjay Kalbande, “ A pipeline for Business Intelligence and data-driven root cause analysis on categorical data”, presented at Springer 3rd International Conference on Sustainable Expert Systems (ICSES 2022), organized by Tribhuvan University Nepal, 9-10 Sept 2022
98. Shwetambari Borade,Dhananjay Kalbande ,:An Automated approach to detect & diagnosis the type of Cosmetic Skin & its Disease using Machine Learning,in 2022 3rd Global Conference for Advancement in Technology(GCAT) 7-9 Oct 2022
99. Jaiwin Shah, Rishab Jain ,Vedant Jolly, Dhananjay Kalbande,” Smart intelligent system that can code like a human being”, accepted for presentation at 4th IEEE International Conference of Emerging Technologies, INCET, Belgaon May 2023.
100. Dhananjay Kalbande, Surendra Rathod, Riddhi Oza, Shreyash Dhamane, “ Detecting the Attention Span of Autistic Children” accepted for presentation at 11th IEEE International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing(ICETET-SIP-23) April 28-29, 2023.

Research Grants Received:

1.Research Grant from National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Govt. of India, New Delhi in 2010-11 for the project titled ZIUS.(1 lacs)
2.Worked as Principal Investigator @ University of Mumbai Minor-Research Grant for the year 2010-2011 for the project titled STACsys: SMS based Taxi and Auto Rickshaw Complaint System.(20,000/)
3.Worked as a co-investigator @ University of Mumbai Minor-Research Grant for the year 2011-2012 for the project titled BMX : Bluetooth Mouse controller for LCD projector and desktop PC.(27,000/)
4.Worked as Principal Investigator @University of Mumbai Minor-Research Grant for the year 2013-2014 for the project titled Android application for Signed Language translation.(35,000/)
5. Worked as Principal Investigator @University of Mumbai Minor-Research Grant for the year 2017-2018 for the project titled IOT enabled Digital Assistant For Autistic Children(40,000/)
6. Working as Coordinator for a Research Grant for the year 2021-22 for the project titled AICTE-IDEA Lab(15,00,000/-)

Professional Affiliation:

- Recognized PG Teacher & Ph.D. Guide of Mumbai University in Computer Engineering and IT.
- Recognized PG Teacher of Mumbai University in Electronics & Telecomm. Engineering.
- Recognized Ph.D Guide of Nagpur University in Computer Science & Technology.
- Internal Expert, RRC, University of Mumbai.

PG Guidance

Course	Guided	Guiding
M.E./M.Tech.	16	0
Ph.D.	08	04

Currently guiding 4 Research scholars for Ph.D [Tech] in Computer Engineering of Mumbai University.

Post-PhD Work:

1. Research in **Skin Image Analysis and Recognizing skin diseases at the early stage** at Seth G.S.Medical College and KEM Hospital ,Parel Mumbai under the guidance of Dr. Uday Khopkar, Professor and Head,Dept.of Skin and VD,KEM Hospital.2016

Results of the Investigation are approved from Institutional Ethics Committee(IEC Committee) ,Seth G.S.Medical College & KEM Hospital.

Status : Completed.

2. Research work Title :**Skin Image Analysis Software for diagnosis of chronic pruritic Skin Diseases at early stage.**

Principal Investigator and Guide: Dr.Uday Khopkar,Professor & Head, Dept.of Dermatology,Seth G.S.Medical College and KEM Hospital. 2017

Co-Investigators : Dr.Dhananjay Kalbande,Dr. Akansha Chadha,Dr. Bhushan Darkase, Dr. Naziya M , Junior Resident, Seth G.S.Medical College & KEM Hospital.

Protocol is submitted to Institutional Ethics Committee(IEC Committee) ,Seth G.S.Medical College & KEM Hospital.

Status : Completed.

3. **MIS Application for Skin and VD Department, KEM Hospital, Parel, Mumbai.** 2018

Status : Completed.

4. **Track on Park : Artificial Intelligence for detecting abandoned vehicles** in collaboration with MCGM, K-Ward, Andheri West, Mumbai. 2019

Status: Completed.

5. **An Intelligent Life Companion** – “ Design and development of AI based Solution to assist in daily chores of elderly and children with disabilities ” in collaboration with Tata Institute of social sciences , Mumbai and Department of Physics, University of Mumbai from 1st Jan 2022 to till date:

Status: On going

6. Analytical study of Climate change and Medicinal Plant classification in collaboration with Bombay College of Pharmacy and Dept.of Geography , Univ.of Mumbai from 13th May 2022 to till date.

Status: Ongoing

Certification done: Good Clinical Practices from NIDA Clinical Trials Networks (CTN Expiration Date: 25 Feb 2025H).

Patent Filed: 09

1. Title of the Invention: “Skin Image Analysis Software for Skin Diseases” dated 24/02/2016 Time: 17:02:14, Docket No.4737.Application No.:201621006433 FER Submitted.
2. Title of the Invention : Theoretical Concept Of "Business Process Framework In An Enterprise Architecture As Per The Architectural Level" dated 13/05/16 Application No. 201621011091 A.
3. Title of the Invention for joint patent with T.I.S.S.,Mumbai for a Post-Doctorate work for the Invention “ Mobile App for Prasutitikakaran and Tikakaran” published dated 26/08/16 Application No.201621026972 A.
4. Title of the Invention “F-MIOTH: Framework For Medical Iot (Internet Of Things In Healthcare” published dated 07/09/2018 Application No. **201821031554. FER submitted**
5. Title of the Invention “Skinzerflow : Skin Disease Detection Using Iot And Image Processing” published dated 07/09/2018 ,Application No. **201821032115.**
6. Title of the Invention : Big Data Architecture For Predicting Malaria And Dengue Incidence., published dated: 29/11/2019, Application No. 201921046529. FER Submitted.
7. Title of the Invention :Track on Park: Application Challan :TR-5, docket no, 65863,Application No.202021051448 dated 26/11/2020.
8. Title of the Invention: Psychological distress detection, classification and assistance using AI, Application No.202121002700 dated 20/01/2021.FER Submitted.
9. Title of the Invention : AI POWERED SINGLE SWITCH BASED REMOTE HEALTH MONITORING SYSTEM FOR ELDERLY, Application No. 202321008008 dated 08/02/2023.

Patent Granted :01

1. Title of the Invention :“AUTO-WALAS: An App for Vehicle Management” dated 21/03/2016 Time: 16:03:00, Docket No. 7129, Application No.: 201621009763.

Awards:08

- 1) Awarded as a Distinguished Professor by Computer Society of India (CSI) for successfully demonstrating innovative and outstanding teaching methodology, organized by CSI TechNext at IITB, Jan 2017.
- 2) Awarded as a Distinguished HOD by Computer Society of India (CSI) for successfully demonstrating innovative and outstanding teaching methodology, organized by CST TechNext, at IITB, Jan 2017.
- 3) Awarded as a Best Faculty of the Year for :Funded Research –Either Govt. or Industry Funded Research Project , by Computer Society of India (CSI) TechNext at IITB, Feb.2018.
- 4) Awarded as Best Professor in Computer Engineering by DNA and Stars Groups at 10th Innovative Leadership Awards, at Taj Lands End, Feb.2018.
- 5) Best paper award for paper titled “Machine Learning Approach for Diagnosis of Autism Spectrum Disorder ,authored by Sai Yerramreddy, Samriddha Basu, Ananya Dharmendra Ojha, Dhananjay Kalbande ,ICICC-Dec.2019 Conference ,Delhi.
- 6) Overall Best paper award and Best Track Paper for a paper titled “.Agility of SCM solution using Neural Fuzzy Approach,” authored by Aarti Karande,, Dhananjay Kalbande, Avinash Sharma., at International conf.RTCAIT Apr.2019
- 7) Second Prize award for paper titled “Artificial Intelligence enabled method for predicting Acne-Non Acne” authored by Dhananjay Kalbande , Parth Dedhia,Nikhil Barhate, Arnab Ghorai,Darshan Savalia ,Dr.Uday Khopkar, TISS AI and Health Conference' Aug.31,2019.
- 8) Awarded for exemplary contribution (Education)of the year 2019-20 in India by PRIME TIME Research Media Pvt.Ltd., Aug.2020.