Profile of Dr. Waghmare Vivek Nivruttirao



Name	: Dr. Waghmare Vivek Nivruttirao
AICTE Id	: AICTE ID-1-439803363
Department	: Artificial Intelligence and Machine Learning
Designation	: Professor
Highest Qualification	: PhD
Date of Birth	: 09/12/1985
Email-id: (official)	: vivek.waghmare@walchandsangli.ac.in
Total Experience	: 16 Yrs 3 Months
Experience at this college	: 1 Yrs 1 Months
Date of Joining	: JUL/2025

About Faculty :

Dr. Vivek Nivrutirao Waghmare is a highly regarded academician and researcher for years. Currently he is working as a Professor & Head, Department of Artificial Intelligence and Machine Learning, Walchand College of Engineering, Sangli (MH) India. He completed his B.Tech. (Computer Science & Engineering) from Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded, India in 2008, and his M.Tech. (Computer Science & Engineering) in 2010 from Walchand College of Engineering Sangli, India. He completed his Ph.D. (Computer Science and Engineering) at Swami Ramanand Teerth Marathwada University, Nanded, India in 2017. He has more than 15 years of teaching and research experience. He serves many as a reviewer for many International Conferences and Journals. He has published 06 patents and more than 33 research papers in different International Conferences and Journals indexed by Scopus, Science Citation Index (SCI), Web of Science, and UGC. He organized many National/State level FDP, STTP, and Workshop and receives more than 15 lacks research grants from different Government Funding Agencies to date. He works as a Research Scholar at the High-Performance Computing Research Laboratory, Walchand College of Engineering Sangli, which received a research grant of approx. Rs. 50,00,000/-, from NRB-DRDO (Naval Research Board, Defence Research & Development Organization). He is a Board of Studies (BoS) Member, or the course Bachelor of Computer Science & Application (BCA) and Bachelor of Film, Animation & VFX (BFA) at Sandip University Nashik, India. He is also the recipient of “The Excellence in Teaching Award”, by the T. P. Foundation, Nashik. His recent research interest includes Computational Science and Hugh Performance Computing. He is one of the best researchers who balance academic and professional knowledge.

Qualification :

Phd : PhD,Computer Science and Engineering,Swami Ramanand Teerth Marathwada University
Post Graduate Degree : M Tech,Computer Science and Engineering,Shivaji University
Degree : B Tech,Computer Science and Engineering,Swami Ramanand Teerth Marathwada University

Areas of Specialization :

Computer Science Artificial IntelligenceComputer Science Theory and Methods

Personal Website :

https://vidwan.inflibnet.ac.in/profile/560462#other_information_panel

Research Identity :	**AICTE Faculty ID :** AICTE ID-1-439803363 **Google Scholar ID :** vv_Jw8IAAAAJ **Orcid ID :** 0000-0002-7776-6683 **Scopus ID :** 36998976000 **Vidwan ID :** 560462 **Web of Science :** AAB-9764-2021
Previous Experience :	**1.** Organization Name :- Sandip Institute Of Technology And Research Centre, Nashik, Designation :- Assistant Professor, Nature of Work :- , Work Tenure :- 15/07/2010 To 02/05/2017 **2.** Organization Name :- Sandip Institute Of Technology And Research Centre, Nashik, Designation :- Associate Professor, Nature of Work :- , Work Tenure :- 03/05/2017 To 03/05/2023 **3.** Organization Name :- Walchand College Of Engineering, Sangli, Designation :- Associate Professor, Nature of Work :- , Work Tenure :- 04/05/2023 To 04/01/2024 **4.** Organization Name :- Pune Vidyarthi Griha'S Coe&Ssdiom, Nashik, Designation :- Associate Professor, Nature of Work :- , Work Tenure :- 05/01/2024 To 30/06/2025
Publications :	**Paper Published/Presented :** **1.** "Securing Electronic Health Record in Edge Computing Environment using Block Chain Technology", Journal of Information Systems Engineering and Management, International Journals, PP. 1047-1060, VOL. 10, 2025 **2.** "Internet of Things (IoT) Based System for Monitoring and Controlling Air Pollution", Elixir International Journal, International Journals, PP. 53082-53084, VOL. 130, 2019 **3.** "A Novel Approach for Passport Digitization Using 256-Bits Encryption Technique", International Journal for Science and Advance Research in Technolog, International Journals, PP. 1491-1494, VOL. 4, 2018 **4.** "QR Code Based Passport Smart Card Using an Advanced Encryption Standard (AES) Algorithm", Elixir International Journal, International Journals, PP. 651-654, VOL. 144, 2020 **5.** "Machine Learning Technique for Rainfall Prediction", International Journal for Research in Applied Science Engineering Technology, International Journals, PP. 594-600, VOL. 9, 2021 **6.** "A Survey on Facemask Detection using A Convolutional Neural Network", Journal of Emerging Technologies and Innovative Research, International Journals, PP. 308-311, VOL. 9, 2022 **7.** "A Review on Content based SMS Classification using Regular Expression and Pattern Matching", International Journal of Creative Research Thoughts, International Journals, PP. 916-921, VOL. 10, 2022 **8.** "Fight Back Cyber Bullying with NLP on SNS using Code Text Approach", International Journal of Advances in Engineering and Management, International Journals, PP. 1162-1165, VOL. 5, 2023 **9.** "Encrypted Signature Scheme for Secure and Selective Dissemination of Tree Structured Data (XML)", International Journal of Computer Science and Engineering, International Journals, PP. 31-40, VOL. 3, 2014 **10.** "A Review on: Issues Related to Security on Tree Structure Dat", International Journal of Computer Science Issues, International Journals, PP. 210-214, VOL. 10, 2013 **11.** "An Agent Based Mobile Transaction and Disconnection Management System", International Journal of Emerging Technology and Advanced Engineering, International Journals, PP. 529-533, VOL. 5, 2015 **12.** "A Parallel Approach for Java using OpenMP", International Journal of

Advance Engineering and Research Development, International Journals, PP. 222-225, VOL. 3, 2016
13. "Implementation of Efficient Signature Scheme for Leakage Free Dissemination of XML Content using Structure Based Routing", Elixir International Journal, International Journals, PP. 493-498, VOL. 81, 2015
14. "Smart Gas System for Auto Leakage Detection, Weight Sensing, and Refilling using GSM Technology", Sandip Foundation, International Journals, PP. 204-208, VOL. 4, 2017
15. "A Review on Mobile Transaction and Disconnection Management", Elixir International Journal, International Journals, PP. , VOL. 76, 2014
16. "A Review on Parallel Computing Issues and Different Parallel Programming Modules", International Journal on Emerging Trends in Technology, International Journals, PP. 204-208, VOL. 1, 2014
17. "Tracking and Detecting depression level using facial recognition and PEN & IQ Test", International Journal of Scientific Research in Engineering and Management, International Journals, PP. 01-04, VOL. 7, 2023
18. "A Review Prevention of Jamming Attacks in Wireless Network Using Internal Threat Model", Elixir International Journal, International Journals, PP. 28705-28708, VOL. 76, 2014
19. "Cyber Attacks on UAV Networks: A Comprehensive Survey", Review of Computer Engineering Research, International Journals, PP. 45-57, VOL. 11, 2024
20. "Weighted Hashing-based Capture Text Similarity Estimation with the Cross-Media Semantic Level", International Journal of Intelligent Systems and Applications in Engineering, International Journals, PP. 241-245, VOL. 10, 2022
21. "Performance Analysis of Matrix-Vector Multiplication in Hybrid (MPI + OpenMP)", International Journal of Computer Applications, International Journals, PP. , VOL. 22, 2011
22. "Implementation and Verification of Dissemination of Tree Structure Data using Signature Scheme for XML Data", International Journal of Database Theory and Application, International Journals, PP. 215-230, VOL. 4, 2015
23. "A Review on Efficient Dissemination of XML Contents", Indian Conference on Signal and Image Processing ICONSIP, National Level, PP. , VOL. , 2015
24. "Dissemination of Tree Structured Data (XML) using Encrypted Post Order Numbering (EPON)", International Conference Image Processing Computers and Industrial Engineering, International Level, PP. 100-105, VOL. , 2014
25. "Approach to Enhancing concurrent and Independent Access to Cloud Database: A Review", International Conference on Computational Intelligence and Communication Networks, International Level, PP. , VOL. , 2015
26. "Storage Matched Systems for Single-click Photo Recognitions using CNN", International Conference on Communication Security and Artificial Intelligence, International Level, PP. 1-7, VOL. , 2023
27. "Estimation of Height of Building Using High Resolution Satellite Image", International Conference on Geographical Information Systems Theory Applications and Management, International Level, PP. 83-93, VOL. , 2024
28. "A Deep Learning Approach for Fast Detection of COVID-19 using Lung X-ray Scans", IDICAIEI, International Level, PP. 286-291, VOL. , 2024
29. "Design and Implementation of 3D Convex Hull in Hybrid MPI and OpenMP", Conference on Computational Intelligence Applications, International Level, PP. 157-161, VOL. , 2010
30. "Convex Hull Using K-Means Clustering in Hybrid (MPI/OpenMP)

	Environment", International Conference on Computational Intelligence and Communication Networks, International Level, PP. 150-153, VOL. , 2010 **31.** "Structured Signature Scheme for Efficient Dissemination of Tree Structured Data", International Conference on Computational Intelligence Communication Networks, International Level, PP. 882-889, VOL. , 2016 **32.** "Automatic Text Summarization using Text Rank Algorithm", RIT Islampur, International Level, PP. 90-96, VOL. , 2024 **Book Published :** **1.** Routledge and CRC Press, Machine Learning Algorithms for Data Driven Intelligent System, ISBN NO :- 978 -1032445960
Patents :	**1.** Brain Inspired Intelligent Impact to predict & Detect Stokes using Supervised Machine Learning, , NATIONAL, 202241040264 **2.** An Integrated Fabric Treatment Device & System, KL University, AP, NATIONAL, 202341020332 **3.** Automated Car Parking Management Device, Walchand College of Engineering, Sangli, NATIONAL, 401329-001 **4.** Universal IoT Remote for Live Streaming Devices, Self, NATIONAL, 6299099 **5.** An IoT based Cleaning System and Method, , INTERNATIONAL,
Courses Handled/List :	**1.** Computer Algorithms **2.** Theory of Computation
Additional Responsibilities :	Head of the Department of Artificial Intelligence and Machine Learning
Sponsored Projects :	**1.** AICTE Training and Learning (ATAL) Academy, New Delhi. **2.** Skill & Personality Development Programme Centre for SC/ST student (SPDC) Scheme
Area of Expertise :	**1.** Subject :- Engineering And Technology, Expertise :- Computer Science Artificial Intelligence, Computer Science Theory and Methods
Other Information :	**Achievements : 1.** Laboratory Infrastructure Upgrades: Successfully established and deployed two state-of-the-art physical spaces—the AI Nexus Laboratory and the Machine Intelligence Laboratory—to scale up physical research capabilities. **2.** Led the department through critical statutory compliance reviews by successfully establishing and securing approval for the foundational Vision, Mission, and Objectives of the AIML Department. **3.** Managed equitable faculty workload distributions, directed departmental budget allocations. **4.** Oversaw the structural modernization of the department's credit system and curriculum to strictly align with modern industrial pipelines. **Consultancies : 1.** Education Officer (Primary) ZP Sangli District Specification of AI & Robotics Laboratory Equipment's **Awards & Recognitions : 1.** Excellences in Teaching 2022 **2.** International Distinguished Young Scientist 2023 **3.** Best Paper Award **4.** Young Scientist / Teacher Travel Grant by SPPU (BCUD), Pune. **Membership of Professional Societies/Bodies : 1.** The Institution of Engineers (IEI) **2.** Indian Society for Technical Education (ISTE) **3.** International Association of Engineers (IAENG)