

CURRICULUM VITAE

Name: Dr. Vijay Maruti Shelake

Degree: B.E.(IT),
M.E.(IT),
Ph.D.(Tech.)(COMP.)

Teaching Experience: 14 Years

Designation: Assistant Professor, Department of
Computer Engineering, Father Conceicao Rodrigues
College of Engineering, Bandra



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Objective:

Seeking a position and platform to utilize my skills and abilities in the Institution that offers professional growth while being resourceful, innovative and flexible.

Educational Qualification:

- **Ph.D.(Technology)(Computer Engineering) from DJSCE(Mumbai University) under guidance of Prof. Dr. Narendra Shekokar Sir.**
- **M.E.(IT) from PIIT(Mumbai University)(74.21%) .**
- **B.E. (IT) from SAKEC (Mumbai University) with First Class (68.73%).**

Area of Specialization:

Database Systems, Data Privacy and Security

Teaching Experience:

Saraswati Education Society, Yadavrao Tasgaonkar College of Engg. & Management, Bhivpuri Road, Karjat.	COMP. & IT Department(From July 2009 to December 2022)
Shah & Anchor Kutchhi Engineering College, Chembur.	IT Department(From January 2009 to July 2009)
Muchhala Polytechnic, Thane.	Computer Department(July 2008 to January 2009)

Computer Skills and Proficiency:

Programming Languages Known:	C#.NET, C, C++, Java.
Database Systems Known:	Microsoft SQL Server, Oracle.

Industrial Project Accomplished:

Project on “**Web Based Services for Co-operative Housing Societies**” at **Maharashtra Knowledge Corporation Limited (MKCL)**, Bandra(E), Mumbai.

Technical Papers Presented/Published:

List of Papers Published in International Conferences/Journals

1. "A Survey and Future Vision of Data Mining In Educational Field" in 2nd International Conference on "Advance Computing and Communication Technologies" (ACCT-12), held on 7th -8th January 2012 at R. G. Education Society, Rohtak, Haryana, India in IEEE Computer Society Digital Library.
2. "A Novel Approach for Smart Login" in International Conference on "Emerging Trends in Technology and It's Applications", on 6th – 7th March 2013 held at Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat, Mumbai, India.
3. "A Survey of Heterogeneous Database Integration" in International Conference on "Emerging Trends in Technology and It's Applications", on 6th – 7th March 2013 held at Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat, Mumbai, India.
4. "A Novel Approach of Multi-Source Heterogeneous Database Integration" in IEEE International Conference on Machine Intelligence and Research Advancement (ICMIRA-2013) held on 22nd December 2013 at Shri Mata Vaishno Devi University, Katra, Jammu, in IEEE Computer Society Digital Library.
5. "A Survey on Model Driven Architecture" in International Conference on "Emerging Trends in Technology and It's Applications", on 6th – 7th March 2013 held at Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat, Mumbai, India in association with University of Mumbai, ISTE, CSI, TJPRC.
6. "Intrusion Detection System Using Optimal C4.5 Algorithm" in International Conference on "Emerging Trends in Technology and It's Applications", on 6th – 7th March 2013 held at Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat, Mumbai, India in association with University of Mumbai, ISTE, CSI, TJPRC.
7. "A Review of Techniques on Ontology Mapping", International Conference on Emerging Trends of Technology" organized by Computer Engineering Department on 15th and 16th of March 2018 at Dilkap Research Institute of Engineering and Management studies, Neral. in association with Mumbai University.
8. E-Spin-Energy Saving Routing Protocol For Wireless Sensor Network Utilizing Sleep Mode Peculiarity of Sensor Node, IJATES (ISSN: 2348-7550), Volume No.03, Issue No. 11, November 2015.
9. Data-Centric Routing Protocols In Wireless Sensor Networks: Survey, IJOER, Vol.3., Issue.4. 2015.

10. "Intrusion Detection System Using Optimal C4.5 Algorithm" had been reviewed by the TJPRC's board and published in "International Journal of Computer Science Engineering and Information Technology Research ", ISSN(Online): 2249-6831 , ISSN(Print): 2249-7943 , Impact Factor(JCC):6.8785,IC value:3.0 ,Edition:APR2014.
12. DSK-based authentication technique for secure smart grid wireless communication, *Advances in Computing Applications*, Springer, 2017, pp. 153–171.
13. A Survey of Privacy Preserving Data Integration, Second International Conference on Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT), IEEE, 2017.
14. A Review and Future Vision of Bloom Filter Based Encoding for Secure Data Integration, International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ECEIC), IEEE, 2019.
15. biHash: A Private Approach for Data Fusion , International Journal of Advance Engineering and Research Development (IJAERD): Vol. 7 No. 12 (2020): Volume: 07, Issue: 12 - December, 2020.
16. An Enhanced Approach for Privacy Preserving Record Linkage, International Conference on Information and Management (ICIM), IEEE, 2020.
17. Privacy Preserving Record Linkage using Phonetic and Bloom Filter Encoding," International Journal of Advanced Research in Engineering and Technology, 11(7), 2020.
18. SMSPPRL: A Similarity Matching Strategy for Privacy Preserving Record Linkage," Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), IEEE, 2020.
19. A Combined Mapping Approach for Relational Schemas, Special Issue on Emerging Techniques in Interdisciplinary Sciences, VidyaBharati International Interdisciplinary Research Journal, 2021.
20. A Novel Approach to Secure Data Sharing , International Journal of Advance Engineering and Research Development (IJAERD): Vol. 8 No. 4 (2021): Volume: 08, Issue: 04 - April, 2021
21. Bloom Filter Based Secure Record Linkage: Cryptanalysis Attack Methods, International Journal of Advanced Research in Engineering and Technology, 12(3), 2021.
22. An Ensemble Approach for Privacy-Preserving Record Linkage, International Journal of Engineering Trends and Technology, 69.9, 2021.
23. A Combined Approach for Private Indexing Mechanism, Journal of Digital Forensics, Security and Law, Vol. 17 , Article 6., 2022.
24. Different Similarity Measures for Secure Name Matching, Cyber Security Threats and Challenges Facing Human Life (1st ed.). Chapman and Hall/CRC, Taylor & Francis, 2022

25. A Review of Similarity Matching Over Encrypted Data, ICAST - International Conference on Advances in Science and Technology, IEEE, 2022.

List of Papers Published in National Conferences

1. “Detecting and Locating Wormhole Attacks in Wireless Ad Hoc Networks” in National Level Conference on Technologies for Network Security, held on 17th September 2011 at Lokmanya Tilak College of Engineering, Kopar Khairane, Navi Mumbai, India.

Major Conferences, STTP, FDPs, Seminars and Workshops Attended:

- Attended Seventh National Conference on “Biometrics, RFID and Emerging Technologies for Automatic Identification”, held on 10th January 2009 at VPM Polytechnic, Thane, Mumbai.
- Attended 3 days IBM DB2 9.0 (Associate DBA Level) Training cum Certification Program, Sponsored by IBM Corporation in association with Forum of Technology Educationists, held on 17th June to 19th June 2010 at MGM’s College of Engg. & Technology, Kamothe, Navi Mumbai.
- Attended 4-day Workshop on “OOAD using UML with Essentials of Rational Software Architect”, held on 3rd January to 6th January 2011 organized by YTCEM in association with IBM and Zensoft Services Private Limited, Pune.
- Participated in one week ISTE approved STTP on “Data Warehousing & Mining”, held on 10th -14th June 2011 organized by K. J. Somaiya Institute of Engineering & Information Technology, Sion, Mumbai, in association with TCS.
- Participated in WIPRO Mission 10X ISTE approved Workshop on “High Impact Teaching Skills”, held on 21st February -25th February 2012 hosted by Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat and Sponsored by WIPRO.
- Participated in ISTE approved STTP on "Multimedia Systems & Human Computer Interaction" held on 9th July to 13th July 2012 at Vivekanand Education Society's Institute of Technology, Chembur, Mumbai.
- Participated in a 2-day Workshop on "Introduction to Robotics" held on 7th-8th December 2012 at Pillai Institute of Information Tech, New Panvel, jointly conducted by University of Mumbai and the MHRD Sponsored e-Yantra project of IIT Bombay.
- Participated and Presented Research Project in Inter-University Research Convention Avishkar 2012-13 held on 26th -27th December 2012 at University of Mumbai, Fort.
- Participated in the Phase-I demo of the Robotics Teacher Competition(Level 1) held on Tuesday 12th March 2013 organized by Pillai HOC College of Engg. and Technology, Rasayani, Mumbai as a part of e-Yantra project of IIT Bombay sponsored by MHRD through NME-ICT.
- Participated in the Random Maze Solver (Level-2) in the E-Yantra Robotics Teacher Competition-2013, held on 5th April 2013, organized by Vidyalankar Institute of Technology, Wadala, Mumbai as part of the e-Yantra project of IIT Bombay.
- Participated in a one week ISTE approved STTP on “ICT Based Teaching Methodolgy”, held on 8th July to 12th July 2013 at Yadavrao Tasgaonkar College of Engineering & Management (YTCEM), Bhivpuri Road, Karjat, Mumbai.

- Participated in Two-day workshop on “Accreditation and Quality Assurance” organized by Department of Computer Engineering, Fr. Conceicao Rodrigues College of Engineering on April 4-5, 2014.
- Participated in the two days IT2020 Technology Conference on 27-28 Feb, 2014 at Victor Menezes Convention Centre, IIT Bombay under the auspices of the CSI-Mumbai Chapter, UBM India & Spoken Tutorials Projects, IIT Bombay.
- Participated in the “Peace Education Program”, held on 7th July to 17th July 2014, conducted by “The Prem Rawat Foundation” at Yadavrao Tasgaonkar College of Engineering & Management (YTCEM), Bhivpuri Road, Karjat, Mumbai.
- Participated in the 102nd Indian Science Congress in Engineering Sciences Section hosted by the University of Mumbai held from 3rd to 7th January 2015.
- Participated in Two-day National Workshop on “Project Based Learning(PBL): Curriculum Design & Implementation for Indian Universities” in association with “Faculty of Technology, University of Mumbai”, UNESCO & Aalborg University, Denmark on 10th & 11th January 2015 at Vishwaniketan’s Campus, Khalapur, Maharashtra, India.
- Participated as the CSI Student Branch Counselor representing Yadavrao Tasgaonkar College of Engineering & Management(YTCEM), Bhivpuri Road, Karjat at TechNext India 2014-15, Annual Convention of the CSI, Mumbai Chapter on 31st January -1st February 2015 at VMCC, IIT Bombay.
- Attended TechNext India 2014-15, Annual Convention of the CSI, Mumbai Chapter on 31st January - 1st February 2015 at VMCC, IIT Bombay.
- Attended Orientation Program for the subject “ Discrete Mathematics” S.E Sem III held on 21st July 2017 organized on behalf of University of Mumbai at Shah & Anchor Kutchhi Engineering College, Chembur.
- Attended workshop on Avishkar Research Convention (Engineering Category) 2017-2018 at Lokmanya Tilak College of Engineering, Navi Mumbai on 9th November 2017.
- Attended workshop /sessions at CSI MUMBAI TechNext India 2018 Annual India Academia Conference and Awards Technology for Educational Transformation on 10th and 11th February 2018 at IIT Bombay, Powai.
- Participated in the Faculty Development Program on “Intellectual Property Rights” from 4th-5th January 2019 organized by D. J. Sanghvi College of Engineering, Vile-Parle.
- Completed ISTE approved STTP on “Data Science Using Python” held from 13th December to 18th December 2021 organized by Shah & Anchor Kutchhi Engineering College, Chembur.

Subjects Taught and other Administrative Work Done:

Subjects Taught:

- DBMS
- GUIDBMS
- ADBMS
- DWM
- DWM & BI
- OS
- OSCD
- NTDD
- MMS
- DBT
- AOS
- SPM
- DSGT
- ADBD
- AOS
- CSS
- BC
- NLP

→ Handling the responsibility of **Head of Department(Computer Engineering)** since 18/07/2014 till 30/12/2022 in Yadavrao Tasgaonkar College of Engineering & Management(YTCEM), Bhivpuri Road, Karjat, which was previously headed by Respected Dr. S. K. Ukarande Sir, Ex-Principal, YTCEM and Ex-Dean, Faculty of Technology, University of Mumbai.

- Handling the additional responsibility of Exam Cell Incharge.

→ Also worked for other **major activities** such as:

- Participated as the **CSI Student Branch Counselor** representing Yadavrao Tasgaonkar College of Engineering & Management(YTCEM), Bhivpuri Road, Karjat at TechNext India 2014-15, Annual Convention of the CSI, Mumbai Chapter on 31st January -1st February 2015 at VMCC, IIT Bombay.
- Worked as a **Session Assistant** for **102nd Indian Science Congress** in Engineering Sciences Section hosted by the **University of Mumbai** held from 3rd to 7th January 2015.
- Worked as a **Core Committee Member** for the International Conference on "Emerging Trends in Technology and It's Applications", held on 7th-8th March 2014 at Yadavrao Tasgaonkar College of Engineering & Management, Bhivpuri Road, Karjat, Mumbai, India.
- Worked as a **Session Incharge** for the International Conference on "Emerging Trends in Technology and It's Applications", held on 6th-7th March 2013 at Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri Road, Karjat, Mumbai, India.
- Worked as a **Registration Committee Head** for Conducting one week ISTE approved STTP on "ICT Based Teaching Methodolgy" organized by Yadavrao Tasgaonkar College of Engineering & Management(YTCEM), Bhivpuri Road, Karjat, Mumbai, India.
- Being **CSI Faculty Incharge** and COIESA member, YTCEM, co-

ordinated various Workshops and Seminars for the Students and Faculty(s).

- Co-ordinated in **Website Updation** of YTCEM.
- **WTR and MAR Co-ordinator (IT & COMP Dept.)**, YTCEM, communicated Weekly Teaching Report with higher authorities & reported about Monthly activities.
- Worked as a **Project Co-ordinator**, IT Dept., YTCEM.
- Co-ordinated various Technical events for students of YTCEM including **Avishkar, Dipex, I-Know Vention C-Programming Contest, Technical Paper & Project Presentations**, Seminars, Workshops & also other events such as **Indian Student Parliament**.
- **External Examiner** for different subjects, seminars and projects.
- **University Exam Paper Setter** for the various subjects.
- **Approved Guide** for
 - PG Students(M.E.(COMP.) & (IT))(University of Mumbai)
 - Final Year Projects(IT & COMP. Branch)
 - Sem VI Seminar(T.E., COMP. Branch)
- Worked as a **Sports Incharge** in Muchhala Polytechnic in the academic year 2008-2009.