



Nitin Shivsharan

Curriculum Vitae

Education

Co-supervisor **Manipal Academy of Higher Education Manipal**, *Manipal Institute of Technology*, Manipal, India, Computer Vision, Medical Image Analysis.

Ph.D. **Electronics and Telecommunication Engineering**, *Savitribai Phule Pune University*, Pune, Sinhgad College of Engineering Pune, Maharashtra, India.

M.E. **Electronics and Telecommunication Engineering**, *Shivaji University Kolhapur*, KIT's College of Engineering, Kolhapur, Maharashtra, India.

B.E. **Electronics Engineering**, *Shivaji University Kolhapur*, Walchand College of Engineering Sangli, Maharashtra, India.

HSC **Science**, *Bharati Vidyapeeth Solapur*, Maharashtra, India.

SSC **Pune Board**, *Jawaharlal High school Mangalwedha*, Maharashtra, India.

Awards

2008 Graduate Aptitude Test in Engineer(GATE)

Computer Skills

Languages Python, MATLAB, Octave, \LaTeX

Platforms Linux(Ubuntu), Windows

Professional Society Membership

1. **ISTE:-** LM:65601
2. **Google Scholar ID:-** 5gKuKM0AAAAJ
3. **Scopus Author ID:-** 57221754612
4. **ORCID:-**0000-0003-2732-5297
5. **Google Scholar h-index:-** 4
6. **i10-index:-** 3
7. **Scopus h-index:-**3

PhD Thesis

Title ***Development and Performance Evaluation of Algorithms for Detection and Classification of Diabetic Retinopathy Grading Systems***

Supervisor Dr. Ganorkar S. R.

Description The goals and objectives of the research topic were the development of algorithms for the detection of diabetic retinopathy on the basis of fundus images and their classification. Further goals of the research topic were the performance evaluation of the developed algorithms

Masters Thesis

Title ***Leader Election Algorithm For Highly Dynamic MANET***

Supervisors Prof. Sambre N.B.

Description This project explored the idea to elect the leader to initiate the communication and handle the communication in the Highly Dynamic Mobile Adhoc Network.

BE Project

Title ***PC Based Automation***

Supervisors Prof. Savgave P. N.

Description The goal of this project was to automate and operate multiple input-output applications using a personal computer (PC). The ON/OFF operations of the output devices linked to the system are controlled by the serial port of the PC. The code for the project is written in the Turbo C programming language.

Teaching Experience

2003–2023 Currently employed as a full-time Associate Professor in the Department of Computer Engineering, S.S.P.M's College of Engineering, Kankavali, affiliated with the University of Mumbai.

List of Courses Compatible to Teach

- Machine Learning
- Deep Learning
- Soft Computing
- Human Machine Interaction
- Mobile Communication and Computing
- Digital Logic, Computer Organization and Architecture
- Digital Image Processing

Administrative Posts

- Head, Department of Computer Science Engineering
- Dean, Research and Development
- Coordinator, TCSiON ERP Software
- Heads, NAAC and NBA Criterion
- Coordinator, ONLINE Exam

Publications: International/National Journals, Conferences, Book Chapters, and Posters

International Journals

1. **Nitin Shivsharan, Omkar Bhosale, Sejal Gavas, Amin Kazi, Bhakti Shirsat**, *Towards Next-Gen E-Commerce: Performance-Driven Development of an Augmented Reality- and Voice-Integrated Web Store*, Cureus Journal of Computer Science.
Springer Nature [PubMed](#)
2. **Nitin Shivsharan, Mandar Tari**, *Machine Learning Empowered: Support Vector Machine-Based Selection of Encryption Techniques for Digital Image Security Level*, Informatica An International Journal of Computing and Informatics.
[Accepted] [Scopus](#)
3. **Tanmay Kadam, Nitin Shivsharan**, "Document Digitization: The All-in-One 'Document World' App for Scanning and Editing PDFs with QR Code Support".", INFOCOMP Journal of Computer Science.

[UGC-CARE List](#) [Brazil](#)

4. **Nitin Shivsharan, Sanjay Ganorkar**, "*Diabetic Retinopathy Detection using Optimization Assisted Deep Learning Model: Outlook on Improved Grey Wolf Algorithm*";, International Journal of Image and Graphics, , vol. 21 issue 1 Jan .2021, ISSN NO 0219-4678.

[Web of Science \(WOS\)](#) [Singapore](#)

5. **Nitin Shivsharan, Sanjay Ganorkar**, "*A Road Map to Understand the Current Status of Diabetic Retinopathy Detection and Classification Methods*", International Journal of Engineering and Advanced Technology (IJEAT), , vol. 9 issue 4 406–412, April 2020,ISSN NO 2249-8958 .

[Scopus](#) [India](#)

6. **Nitin Shivsharan, Sanjay Ganorkar.**, "*Automated Diabetic Retinopathy Detection using Convolutional Neural Network*", , International Journal of TEST Engineering and Management,, vol. 83 issue March April: 2139–2145, April 2020, ISSN NO 0193-4120.

[Scopus](#) [USA](#)

7. **Nitin Shivsharan, Sanjay Ganorkar.** , "*Predicting Severity of Diabetic Retinopathy using Deep Learning Models*";, . International Research Journal on Advanced Science Hub, , 2021, Volume 3, Issue Special Issue ICEST 1S, Pages 67-72.

[Google scholar](#) [India](#)

8. **S. S. Chavan, G. S. Vejare, S. G. Dsouza, N. M. Shivsharan**, "*Web Based College Automation System*", International Journal of Computer Sciences and Engineering, Vol. 8, Issue.4, Apr 2020 E-ISSN: 2347-2693.

[UGC Listed](#) [India](#)

9. **Rathod Akash , Naik Mukund, Shivsharan Nitin, Duple Vinay, Parab Aditya, Dalvi Riddesh**, *"Enhanced SMS Spam Detection Using Machine Learning and Natural Language Processing Techniques: A Comparative Analysis"*, Journal of Emerging Technologies and Innovative Research, (ISSN-2349-5162).

2024

Book Chapters

1. **Nitin Shivsharan, Siddhi Sutar, Shruti Khadye, Hemangi Parab, Vaishnavi Ugvekar** , *"VisionMate: A Deep Learning with Transfer Learning-Powered Mobile Application for Object and Currency Detection with Enhanced Accessibility for Visually Impaired Individuals"*, Springer's International Conference On Advanced Computational and Communication Paradigms (ICACCP) Held at Sikkim Manipal Institute of Technology, Sikkim India., Springer.

Scopus Singapore Publications is process

2. **Nitin Shivsharan, Omkar Bhosale, Sejal Gavas, Amin Kazi, Bhakti Shirsat** , *"Design and Development of an Augmented Reality-Integrated Webstore with Voice Assistant for Enhanced E-Commerce and User Experience."*, 3rd International Conference on Recent Advances in Computing Sciences (RACS-2025) Lovely Professional University Panjab, India, Recent Advances in Computing Sciences .

Taylor and Francis CRC, Press London Publication is in Process

3. **Nitin Shivsharan, Sanjay Ganorkar.**, *"Implementation of the Modified Pre-trained DenseNet Model for the Classification of Grades of the Diabetic Retinopathy"*, Inventive Communication and Computational Technologies, Springer, Online ISBN 978-981-16-5529-6.

Scopus Singapore

International Conferences

1. **Nitin Shivsharan, Sanjay Ganorkar**, *"Hybrid Quantum-Classical Deep Learning Model for Enhanced Grading of Diabetic Retinopathy Using Transfer Learning Techniques"*, IEEE International Symposium on Emerging Metaverse (ISEMV) IEEE , 19-20 October 2025, Honolulu, HI USA..

Submitted

2. **Nitin Shivsharan, Siddhi Sutar, Shruti Khadye, Hemangi Parab, Vaishnavi Ugvekar**, , *"VisionMate: A Deep Learning with Transfer Learning-Powered Mobile Application for Object and Currency Detection with Enhanced Accessibility for Visually Impaired Individuals"*, Springer's International Conference On Advanced Computational and Communication Paradigms (ICACCP) Held at Sikkim Manipal Institute of Technology, Sikkim, India., Springer..

3. **Nitin Shivsharan, Omkar Bhosale, Sejal Gavas, Amin Kazi, Bhakti Shirsat**., *"Design and Development of an Augmented Reality-Integrated Webstore with Voice Assistant for Enhanced E-Commerce and User Experience."*, , 3rd International Conference on Recent Advances in Computing Sciences (RACS-2025), , Lovely Professional University Panjab, India.

4. **Nitin Shivsharan, Mandar Kulkarni, Prarthana Modak, Indragopal Bille, Amol Waingankar, Duradundi Badkar**, *A Stacked LSTM-Based Deep Learning Approach for Forecasting Nifty 50 Market Lows"*, IEEE 3rd International Conference on Inventive Computing and Informatics (ICICI 2025) S.E.A. College of Engineering, Bangalore. India.

Publication is in process

5. **Nitin Shivsharan, Vikrant Kambli, Siddhesh Dabholkar, Aditya Dalvi, Tanaji Sukali**, *"Evaluating Machine Learning Models for Sentiment Analysis of YouTube Comments and Creating an Accessible Web Application for Comment Analysis."*, International Conference on Machine Learning and Data Engineering ICMLDE 2024 28th-29th November 2024 Dehradun, India, Procedia Computer Science, Elsevier. Scopus Indexed
6. **Nitin Shivsharan, Pratiksha Sawant, Sukanya Patil, Janhavi Matondkar, Aditi Gawade**, *"Development and Performance Evaluation of Text Summarization using Deep Learning and Natural Language Processing Techniques."*, "IEEE 2023 7th International Conference on Inventive Computation Technologies ICICT 2024, Nepal. Scopus Indexed
7. **Nitin Shivsharan. Madan patil, Abhishek Gawade, Yash Naik Harshal Yeram** , *"Enhancing Cybersecurity: A Comprehensive Analysis of Machine Learning Techniques in Detecting and Preventing Phishing Attacks with a Focus on XGBoost Algorithm"*, "IEEE International Conference on Intelligent Systems for Cybersecurity (ISCS) 03rd -04th MAY 2024 , Haryana, India. Scopus Indexed
8. **Nitin Shivsharan, Shardul Kambali, Om Vaman Nikharge, Kedar Uttam** , *"Crypto currency tracker and analyser"*, "IEEE 2023 3rd International Conference for Intelligent Technologies (CONIT), Hubballi, Karnataka, India. Scopus Indexed

9. **Nitin Shivsharan, Sanjay Ganorkar**, *"Implementation of the Modified Pre-trained DenseNet Model for the Classification of Grades of the Diabetic Retinopathy"*, 5th International Conference on Inventive Communication and Computational Technologies ICICCT 2021, 25-26, June 2021, Gnanamani College of Technology, Namakkal, India.
Scopus Indexed
10. **Nitin Shivsharan, Sanjay Ganorkar**, *"Predicting Severity of Diabetic Retinopathy using Deep Learning"*, International Conference on Engineering Science and Technology , Jan. 2021..
11. **Nitin Shivsharan, Sanjay Ganorkar**, *"Automated Diabetic Retinopathy Detection using Convolutional Neural Network"*, International Conference on Pervasive Computing(ICPC2020), 13th Feb. To 14th Feb. 2020..
Sinhgad College of Engineering Pune
12. **Bane Raman, Nitin Shivsharan**, *"Network Intrusion Detection System(NIDS)"*, First International Conference on Emerging Trends in Engineering and Technology, 16th July To 18th July 2008..
G.H. Rasoni College Of Engineering,Nagpur India
13. **Nitin Shivsharan, Sanjay Ganorkar**, *"Diabetic Retinopathy: Review on Anatomical Regions Extraction Methods and Image Databases of the Retina"*, International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), SSN College of Engineering, Chennai. March .
2017

National Conferences

1. **Nitin Shivsharan, Danny Perira**, *Kerberos : Authentication Control For Distributed System*, National Conference on Distributed Computing, Dr D.Y.Patil Institute Of Engineering and Technology.
1st Sept. To 2nd Sept. 2006 Pune India
2. **Raman Bane Nitin Shivsharan**, *"Cluster Management For High Availability Services"*, National Conference on Distributed Computing, Dr D.Y.Patil Institute Of Engineering and Technology.
1st Sept. To 2nd Sept. 2006 Pune India
3. **Nitin Shivsharan, Darshan Mhapsekar**, *"Implementation Of learning Agent in Distributed Environment"*, National Conference on Distributed Computing, Datta Meghe College Of Engineering Navi Mumbai..
28th Dec. To 29th Dec. 2007

Poster Presentation

1. **Prajakta Rane, Niranjana S, Ramya S, Nitin Shivsharan**, *"Development of Optimized Machine Model for prediction of Dengue using Clinical Markers"*, Interdisciplinary Conference on Healthcare and Technical Research ICHTR 2024, Manipal Institute of Technology, Manipal, India.

Reviewer

1. **"The Imaging Science Journal" (2)**., *Taylor and Francis*, Scopus and Web of Science Indexed.
2. **Cureus Journal of Computer Science**, *Springer Nature*, PubMed Indexed.
3. **"Informatica An International Journal of Computing and Informatics"**, *Scopus Indexed*.

2. **IEEE and Springer International Conferences (15+)) and National Conferences (2) .**

Expert/Guest Lecture

1. **"How to Write and Publish a Scientific Research Paper"**, *National Digital Library of India*, Sindhudurga Shikshan Prasarak College of Engineering, Kankavali..
4th Feb 2022
2. **Developing Applications using KERAS**, *ISTE Approved a Short Term Training Program* , SSPM College of Engineering Kankavali, Department of Computer Engineering.
10-14 Jan. 2022.

Grants Received

1. Applied for Google India and Southeast Asia Student Travel Grant Application
1. **Basic ATAL Online FDP on "Quantum Technology: A Transformative Approach to Next-Generation Computing"**, *December 8–13, 2025.*, Rs. 1 Lakh.

Faculty Development Programs Organized

1. Python Programming and Web Application Framework(PYLON) SSPM College of Engg. Kankavli 27th Dec2010 To 31st Dec.2010.
2. Linux Awareness and Programming Tools SSPM College of Engg. Kankavli 21st Dec2009 To 26th Dec.2009.

Faculty Development Programs Attended

1. International FDP on "Comprehensive Exploration of Cognitronics by Unraveling Technologies " from 06/02/2024 to 10/02/2024 Poornima College of Engineering, Jaypur, Rajasthan.
2. Microsoft, SAP and AICTE FDP on "AI Evolution: From Foundations to Generative AI" from 22/1/2024 to 27/1/2024 NIT, Tirchy
3. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Introduction To Deep Learning" from 20/12/2021 to 24/12/2021 at University Visvesvaraya College of Engineering
4. 'Moodle Learning Management System' held at the SSPM College Of Engineering, Kankavli on 15 March 2019. This training was organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India.
5. Digital Image Processing NPTEL–AICTE Faculty Development Program Online Certification.
6. Pedagogy for Online and Blended Teaching-Learning Process FDP Indian Institute of Technology Bombay from May 3, 2018 to May 30, 2018.
7. Foundation Program in ICT for Education FDP conducted by Indian Institute of Technology Bombay from March 8, 2018 to April 12, 2018
8. Image Processing advances and Research Challenges SCOE Pune 11st Dec. to 15th Dec. 2017.

9. 10 Tips for writing a truly terrible journal article Elsevier Publishing Campus 14th Nov. 2017.
10. Preparing your manuscript Elsevier Publishing Campus 14th Nov. 2017.
11. Beginners guide to writing a manuscript in LaTeX Elsevier Publishing Campus 14th Nov. 2017.
12. Wired and Wireless Protocol Design and Analysis using NS-2 PICT Pune 27th Dec, to 30th Dec. 2012.
13. Mobile Ad hoc network and Simulation SSPM College of Engg. Kankavli 09th Jan To 13th Jan 2012.
14. Advance Digital Signal Processing SSPM College of Engg. Kankavli 26th Dec To 30th Dec 2011.
15. Writing Device Driver SSPM College of Engg. Kankavli 05th Nov to 06th Nov 2011.
16. Solar Wind and Renewable Energy Sources SSPM College of Engg. Kankavli 30th May to 03rd June 2011.
17. Python Programming and Web Application Framework(PYLON) SSPM College of Engg. Kankavli 27th Dec2010 To 31st Dec.2010.
18. Wireless Security IISc Bangalore 19th Dec2010 To 24th Dec.2010.
19. Advanced Engineering Materials SSPM College of Engg. Kankavli 12th Dec2010 To 16th Dec.2010.
20. Linux Awareness and Programming Tools SSPM College of Engg. Kankavli 21st Dec2009 To 26th Dec.2009.

21. Programming With Python BITS Pilani Goa Campus 31st Oct. To 1st Nov. 2009.
22. OOAD Using UML Fundamentals Rational Rose, SSPM College of Engg. Kankavli 29th May To 30th May 2008.
23. Distributed Component Technology Fr. Rodrgues Collge of Engg. Vashi, Navi Mumbai. 17th Dec To 22nd Dec.2007.
24. Digital Image Processing SIES College of Engg, Navi Mumbai 18th Dec To 29th Dec.2006

Other Responsibilities handled

- A member of the Local Enquiry Committee (LIC) of Mumbai University
- Secretary ISTE Staff and Student Chapter and coordinator for Institute level ERP Software.
- Annual Function Coordinator Kshitij-2011 and 2012
- Coordinator For Faculty Development program STTP On MANAS-2012
- Coordinator For Faculty Development program STTP On PYTHON2010
- Coordinator For Faculty Development program STTP On LAPT2009
- Workshop Coordinator On Writing Device Driver on 2011
- Convener For the National Level Paper Presentation Contest Evolution 2K9

- Coordinator For the National Level Paper Presentation Contest Evolution 2K8
- Staff-In charge of Computer Student Association (CSA).
- Actively involved in Lab Development such as Lab Setup.
- In Admission Cell, Involved in Sports and Cultural activities.
- MSCIT Exam coordinator Conducted In the Institute (SSPM CoE)

Declaration

I, the undersigned, hereby declare that the above-said information is true and correct.

Date: August 7, 2025

Place: Kankavali

