

Name	MR. SHASHANK SHASHIKANT TOLYE M.E. (Computer Network), B.E. (IT)
Designation	Assistant Professor
Department	Information Technology
Date of Joining the Institute	28/07/2011
Education	M.E. (Computer Network), SIT Lonavala, 2016 B.E. (IT), FAMT, Ratnagiri, 2008
Branch / Specialization	Computer Network
Areas of Interest / Research Interest	Theory of Computation, Wireless Technology, Data Structures, Big Data Analytics, Machine Learning
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Academic Experience

Name of the University / Institute / Industry	Duration	Designation
Finolex Academy of Management and Technology, Ratnagiri	From 28/07/2011 to till date	Assistant Professor

Academic Experience – 12 Years

Industrial Experience

Name of Organization / Company	Duration	Designation
"Sharad Consultants"	01/07/2010 to 25/07/2011	Software Engineer
"Gadre Infotech Private Limited", Ratnagiri	04/11/2008 to 31/05/2010	Software Developer

Industrial Experience – 2.5 Years

Total Experience(Academic + Industry) – 14.5 Years

Patents Filed - 02

Patent Filed - 02

- "A SYSTEM AND METHOD FOR ANOMALY DETECTION BASED ON DIFFERENTIAL OF SENTIMENT SCORE"**, Patent application No. **2023/06637**, Intellectual Property, Republic of South Africa (Status: Filed on 28/06/2023)

2. **"METHOD AND SYSTEM FOR EFFICIENT IMAGE SEGMENTATION USING OPTIMIZED SEGNET-BASED MODEL"**, Patent application No. **2023/08526**, Intellectual Property, Republic of South Africa (Status: Filed on 05/09/2023)

Copyright Applied – 01

Copyright Applied – 01

1. **"ANOMALY DETECTION USING SENTIMENT ANALYTICS AND VISUALIZATION OF LIVE TWITTER DATA"**, Copyright diary No. **6089/2023-CO/SW**, Copyright Office, Government of India (Status: Applied on 09/03/2023)

Books - 01

1. **"Infrastructure Security"**, Nirali Prakashan, Mumbai, India, **ISBN – 978-81-19883-01-1**

Awards / Honors / Prizes

1. Achieved **Elite + Silver** in 12 Week NPTEL Online Certification Course on **"Programming in Java"** conducted by Indian Institute of Technology Kharagpur from **January 2019 to April 2019**.
2. Achieved **Topper 5 Percent** in 08 Week NPTEL Online Certification Course on **"Programming in C++"** conducted by Indian Institute of Technology Kharagpur from **July 2017 to September 2017**.
3. **Selected as one of the top 250 performers and awarded a cash prize of Rs.5000/-** in a Four week AICTE approved FDP by IIT Bombay on- **"Use of ICT in Education for Online and Blended Learning"** in **December 2016**.

Papers Published

Papers Published in National / International Journals - 09

International Journals – 09

1. Paper titled **"An Efficient Image Segmentation using Optimized Segmentation Network for Remote Sensing Satellite Images"** published in International Journal of Intelligent Systems and Applications in Engineering, **Scopus Indexed Journal, 15 July 2023** (ISSN: 2147-6799)
2. Paper titled **"REAL TIME AND VIDEO SEGMENTATION USING MACHINE LEARNING"** published in the International Journal of Creative Research Thoughts, **UGC Approved Journal**, Volume-10, Issue-4, **April 2022** (ISSN: 2320-2882)
3. Paper titled **"SECURITY MONITORING SYSTEM FOR REMOTELY ISOLATED AREAS"** published in the International Journal of Creative Research Thoughts, **UGC Approved Journal**, Volume-10, Issue-4, **April 2022** (ISSN: 2320-2882)

4. Paper titled **"Proposed Duty Registration Application for Reserved Police Force Head Quarter"** published in International Journal of Engineering Technology Science and Research, **UGC Approved Journal**, Volume 4, Issue 10, **October 2017** (ISSN: 2394-3386)
5. Paper titled **"COMPARATIVE STUDY OF DATA MINING ALGORITHM ON SENTIMENT ANALYSIS OF SOCIAL MEDIA"** published in International Journal of Research In Science & Engineering, Special Issue 7, **March 2017** (ISSN 2394-8299)
6. Paper titled **"Distance based Energy Efficient Routing Protocol in Mobile Ad hoc Networks"** International Journal of Advanced Research in Computer and Communication Engineering – **UGC Approved Journal**, Volume 5, Issue 1, **January 2016** (ISSN 2278 – 1021), DOI : 10.17148/IJARCCCE.2016.5132
7. Paper titled **"Fault Tolerance in the Mobile Ad hoc Network using Link Monitoring"** published in ASIAN JOURNAL OF CONVERGENCE IN TECHNOLOGY, Volume 2, Issue 3, **2016** (ISSN 2350 - 1146)
8. Paper titled **"PAAS: Proposed Scheme for Remote Access of Smart Phones"** published in ASIAN JOURNAL OF CONVERGENCE IN TECHNOLOGY, Volume 2, Issue 3, **2016** (ISSN 2350 - 1146)
9. Paper titled **"A Survey on Energy Efficient AODV and DSR Routing Protocols"** published in International Journal of Computer Science and Mobile Computing, Volume 3, Issue 11, **November 2014** (ISSN 2320-088X)

Papers Presented/Published in National/ International Conferences - 10

International Conferences – 06

1. Paper presented titled **"Sentiment analysis of tweets for COVID-19 outbreak and its impact using named entity recognition"** in The 13th International Conference on Communications, Computing and Data Security on 26th February, 2022.
2. Paper presented titled **"SECURITY MONITORING SYSTEM FOR REMOTELY ISOLATED AREAS"** in International Conference on Communication and Computing 2022 9th April 2022.
3. Paper presented titled **"REAL TIME AND VIDEO SEGMENTATION USING MACHINE LEARNING"** in International Conference on Communication and Computing 2022 9th April 2022.
4. Paper presented titled **"Distributed Decomposed Data Analytics of IoT, SAR and Social Network Data"** in 3rd International Conference, Communication Systems, Computing & IT Applications CSCITA-2020 on 3rd April 2020.
5. Paper presented titled **"Proposed Duty Registration Application for Reserved Police Force Head Quarter"** in 2nd International Conference on Science, Technology & Management (ICSTM,2017) on 15th October 2017.
6. Paper presented titled **"Comparative study of data mining algorithms on sentiment analysis of social media"** in International Conference on Emanations in Modern Technology & Engineering on 4th March 2017.

National Conferences – 04

1. Paper presented titled **"Fault Tolerance in Mobile Ad hoc Network using Link Monitoring"** at 2nd National Conference on Recent Advances in Science and Technology (RAST) organized by Finolex Academy of Management and Technology, Ratnagiri on 17th and 18th February 2016.
2. Paper presented titled **"PAAS: Proposed Scheme for Remote Access of Smart Phones"** at 2nd National Conference on Recent Advances in Science and Technology (RAST) organized by Finolex Academy of Management and Technology, Ratnagiri on 17th and 18th February 2016.
3. Paper presented titled **"RagaDroid: Proposed Android Application for Musical Raga Identification"** at 2nd National Conference on Recent Advances in Science and Technology (RAST) organized by Finolex Academy of Management and Technology, Ratnagiri on 17th and 18th February 2016.
4. Paper presented titled **"Modified DSR Protocol for power aware routing in MANETs"** at cPGCON 2015 on 13th March 2015.

Number of Workshops, Seminars, STTPs, FDPs Attended – 36

STTP / FDPs

1. Completed **ISTE Approved One Week Online FDP on AI Algorithms and Applications in Healthcare"** Conducted during **19th June to 23rd June, 2023** organized by Department of Electronics and Telecommunication Engineering, Finolex Academy of Management and Technology, Ratnagiri.
2. Completed two weeks **ISTE Approved Short Term Training Programme (STTP) on "Advancement's in Cryptography, Blockchain and Cryptocurrency"** Conducted during **5th to 16th December, 2022** organized by Finolex Academy of Management and Technology, Ratnagiri.
3. Completed **2-Week FDP on Java** organized by Spoken Tutorial, IIT Bombay from **30th November, 2021 to 6th December, 2021**.
4. Completed **1-week FDP on "NBA Accreditation Process"** organized by **National Institute of Technical Teachers Training and Research, Chennai** from 6th December To 10th December 2021.
5. Completed **1-week FDP on "Patent Analytics Course"** organized by **Turnip Innovations, Kolkata** from 22nd September To 1st October 2021.
6. Completed **2-Week STTP on The Teacher Education Program on the 21st Century Learning Design** organized by Information Technology department, Finolex Academy of Management and Technology, Ratnagiri from 3rd May to 15th May, 2021.
7. Completed **AICTE Training and Learning (ATAL) Academy FDP on Data Sciences** organized by Sri Krishna College of Engineering and Technology from 7th December to 11th December, 2020.
8. Completed **AICTE Training and Learning (ATAL) Academy FDP on Internet of Things (IoT)** organized by Sri Sairam Engineering College from 30th November to 4th December, 2020.

9. Completed **2-week FDP** on **"Patent Information Course"** organized by **Turnip Innovations, Kolkata** in September, 2020.
10. Completed **1-week online FDP** on **"Exploring the Dimensions of Innovation, Incubation and Emerging Technologies to embrace Post COVID changes"** organized by Department of Mechanical Engineering of Finolex Academy of Management and Technology, Ratnagiri from 8th June to 12th June, 2020.
11. Completed a **1-week FDP** on **Usage of Technology in COVID-19** organized by Department of Information Technology, Terna Engineering College, Navi Mumbai in association with L & D Technology, Pune from 28th May to 2nd June, 2020.
12. Completed a **12 Week NPTEL (Equivalent to 1.5-week FDP) on Deep Learning Part-1** organized by IIT Madras from July to October, 2019.
13. Completed a **08 Week NPTEL (Equivalent to 1-week FDP) on Introduction to Research** organized by IIT Madras from August to October, 2019.
14. Attended **Four Week AICTE approved FDP** by IIT Bombay on **"Use of ICT in Education for Online and Blended Learning"** from 2nd May to 10th July 2016.
15. Attended Two Week **ISTE STTP** on **'Technical Communication for Scientists and Engineers'** Conducted by IIT Bombay under the National Mission on Education through ICT(MHRD) from 8th October to 5th December 2015.
16. Attended **3-day state level workshop** on **"Network Design and Simulation using ns-3"** sponsored by Savitribai Phule Pune University, organized at G.H. Rasoni College of Engineering, Wagholi, Pune in January, 2014.

Conferences and Seminars

17. Attended **2 Day Webinar on Placement Preparation Program** organized by IIT Bombay on 25th and 26th January, 2023.
18. Attended **5th IEEE Pune Section's International Conference 2022 on Information, Implementation and Innovation in Technology** on 15th to 17th December, 2022.
19. Attended a Webinar on **Foundations of Business and Entrepreneurship** organized by Skillfront Technologies on 23rd April, 2021.
20. Attended **International Webinar on Deep Learning Present and Future** organized by Department of Computer Science, Government General Degree College, Singur on 23rd August, 2020.
21. Attended **a Webinar on Cyber Security** organized by Department of Electronics and Telecommunication of Finolex Academy of Management and Technology, Ratnagiri on 20th June, 2020.
22. Attended **a Webinar on Transformative Learning in Engineering & Technology** organized by EKNOWAY Solutions on 26th May, 2020.
23. Attended **an International Infathon Conclave 2K20 Seminar on Quantum Artificial Intelligence** organized by Thakur College of Science & Commerce, Mumbai on 16th May, 2020.

24. Attended a **International Infathon Conclave 2K20 Seminar on Technology Architecture and Governance** organized by Thakur College of Science & Commerce, Mumbai on 16th May, 2020.
25. Attended a **International Infathon Conclave 2K20 Seminar on Blockchain in Management and Finance** organized by Thakur College of Science & Commerce, Mumbai on 14th May, 2020.
26. Attended a **International Infathon Conclave 2K20 Seminar on Machine Learning Redefining the Semiconductor Industry** organized by Thakur College of Science & Commerce, Mumbai on 14th May, 2020.
27. Attended a **International Infathon Conclave 2K20 Seminar on Research Manuscript Writing: Skills and Ethical Misconducts** organized by Thakur College of Science & Commerce, Mumbai on 14th May, 2020.
28. Attended a **1-day national Seminar on Angular** organized by Sant Gajanan Maharaj College of Engineering, Mahagaon on 4th March, 2020.

Two Week or One Week Workshops

29. Attended the **2 Week Entrepreneurship Course** organized by Turnip Innovations, Kolkata.
30. Attended **One Week Workshop on "Funding Schemes Available for Research Proposals"** Organized by Research Development and Consultancy cell (RDCC) of Finolex Academy of Management and Technology, Ratnagiri from 13th February to 23rd April 2016.

Workshops

31. Completed a **1-Day National Level workshop on "How to Plan a Research"** organized by Research and Development Cell of G H Raison University, Amravati, on 3rd October, 2020.
32. Completed a **1-Day Workshop on R** organized by Teaching and Learning Center ICT, IIT Bombay on 9th November, 2019.
33. Completed a **1-Day Workshop on Linux** organized by Teaching and Learning Center ICT, IIT Bombay on 23rd August, 2019.
34. Completed a **2-Day International Workshop on Conversational Artificial Intelligence (AI)** organized by Hope Foundation's International Institute of Information Technology, Pune from 30th August to 31st August, 2019.
35. Attended **2 Day ISTE Workshop for Teachers on "Aakash for Education"** Conducted by IIT Bombay under the National Mission on Education through ICT from 10th to 11th November 2012.
36. Attended **3-Day National Level Workshop on Android Application & Game Development Fundamentals** Organized by Finolex Academy of Management and Technology, Ratnagiri from 11th July to 13th July 2012.

Extension / Outreach Programs/ Social Programs As a Resource Person

1. Worked as a referee for “**PowerPoint Presentation Competition**” on 27th March 2021.

College Level Administrative Responsibilities

1. Working as **member of Career Counselling Committee (CCC)**.
2. Working as **a Feedback Committee Central Committee member**.
3. Working as **a Departmental Library In-charge** for IT department.
4. Working as **NSS Core Committee member**.
5. Worked as **Website Core Committee member**.
6. Worked as **a Feedback Committee Department coordinator** for MCA department.

Subject Taught

Sr. No.	Name of the Subject	Year/Branch/Semester	Experience
1.	Automata Theory	SEIT (Sem-IV)	03
2.	Information Retrieval System	BEIT (Sem-VII)	02
3.	Software Engineering	TEIT (Sem-V)	01
4.	Java Skilled Base Lab	SEIT (Sem-III)	02
5.	Computer Networks	SEIT (Sem-IV)	02
6.	Wireless Technology	BEIT (Sem-VII)	02
7.	Wireless Networks	BEIT (Sem-VII)	01
8.	Distributed Systems	TEIT (Sem-VI)	02
9.	Object Oriented Programming with Java	SECSE(AI&ML) (Sem-III)	02
10.	Analysis of Algorithm	SECSE(AI&ML) (Sem-IV)	02
11.	Big Data Analytics	BECSE(AI&ML) (Sem-VII)	01
12.	Next Generation Networks	TYMCA(Sem-V)	01
13.	Wireless and Mobile Technology	TYMCA(Sem-V)	02
14.	Information Technology in Management	SYMCA (Sem-IV)	01

15.	C Programming	FE(ALL) (Sem-II)	02
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