# Somaiya Vidyavihar University

| Name: | **Ms. Swati Mali** | E-mail:swatimali@somaiya.edu |
|---|---|---|
| **Contact No:** | **9820578741** | |
| Department/Section: Computer Engineering | | |
| College:  K J Somaiya College of Engineering | | |
| DOJ  Somaiya:  Aug 01,2022 | Career Experience: 25Yrs | Industry Experience: 0 Yrs | Teaching   Experience: 25 Yrs |
| Present Academic Designation: Assistant Professor | | Present Administrative Designation: (Principal/Vice-Principal/ Associate Dean/ HOD etc) |

| Area of research/specialization and Courses Delivered |
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Research domain/interests/areas
1. Intelligent systems
2. System security
3. Analysis of Algorithms
4. Data Structures
5. Operating Systems
6. Computer Networks

Courses Delivered
1. Data Structures
2. Analysis of Algorithms
3. Advanced Analysis of algorithms
4. Operating Systems
5. Advanced operating systems
6. Intelligent Systems
7. System Security
8. Applied Cryptography
9. Digital Forensics
10. Computer Networks
11. Distributed Systems
12. Social, Mobile, Analytics and Cloud

| Recognition as a teacher by any University | UG: Yes | PG:  Yes | Ph. D : No |
|---|---|---|---|
| Details of Recognitions | | | |

1. Received "Excellence in Teaching " by students council, KJSCE in 2006

| Education | | | | | |
|---|---|---|---|---|---|
| Examination | Name of the Degree | University/Board | Institute/College | Year | CPI/SPI/ %Marks |
| Ph.D | Pursuing | Mumbai University | LTCOE, Navi Mumbai | -- | Pursuing |
| PG | M. Tech | Mumbai University | VJTI, Mumbai | 2011 | 9.00 |
| UG | B.E. [CSE] | Shivaji University | WCE, Sangli | 2000 | 66.67 |

| Notable Experience Details | | | | | |
|---|---|---|---|---|---|
| Sr. No | Name of the organization | Designation | Date of Joining | Date of Leaving | Experience (Years) |
| 1. | | | | | |
| 2. | | | | | |

| Research Accomplishments and Projects |
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# Somaiya Vidyavihar University

| No of students pursuing Ph.D as on date: NA | No of students completed Ph.D as on date: NA |
|---|---|
| No of students completed PG thesis / Project work as on date: 09 | No of students / groups completed UG projects as on date: 100+ |
| Publications Total: 35 | Number of Peer review Journal papers: 15 | Number of Conference papers: 16 |

Details of Publications:

International Journals

1. Hardik P. Trivedi, Gaurav N. Daxini, Jignesh A. Oswal, Vinay D. Gor and Swati Mali, "An Approach to Design Personalized Focused Crawler", International Journal of Computer Sciences and Engineering, Volume-02, Issue-03, Page No (144-147), Mar -2014, E-ISSN: 2347-2693

2. Shah Vruksha, Riya Patni, Vivek Patani, and Rhythm Shah. "Understanding Focused Crawler." International Journal of Computer Science & Information Technologies 5, no. 5 (2014): 6849-6852.

3. Swati Mali, Omkar A. Kulkarni, Vaibhavi A. Shah, Krishana B. Paste, Monic V. Bhanushali, "Public Sharing File System Using Google Drive", Volume 3 Issue 3 , International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), March 2015, ISSN: 2321-8169, PP: 1550 – 1553

4. Priya Wani, Swati Mali, " Securing Routing Protocol BGP" , Volume 3, Issue 2, International Research Journal of Engineering and Technology (IJRET), e-ISSN: 2395-0056, p-ISSN: 2395-0072, Page 40-46, February 2016.

5. Namita Mhatre, Karan Motani, Maitri Shah and Swati Mali, "Donna Interactive Chat-bot acting as a Personal Assistant", International Journal of Computer Applications 140(10):6-11, April 2016, Published by Foundation of Computer Science (FCS), NY, USA.

6. Priyanshi R Shah, Chintan D Thakkar and Swati Mali, "Computational Creativity: Automated Pun Generation", International Journal of Computer Applications 140(10):18-22, April 2016. Published by Foundation of Computer Science (FCS), NY, USA.

7. Veena Rathanavel, Mali Swati. "Graphical Password as an OTP." International Journal Of Engineering And Computer Science 6, no. 1 (2017).

8. Siddhesh Karekar, Amogh Bhabal, Bhushan Pathak and Swati Mali. A System to Determine Demographic Attributes using Local Browsing History. International Journal of Computer Applications 171(4):8-12, August 2017

9. Doshi, Ami, Ria Shah, Drasti Bhimani, Bhoomi Patel, and Swati Mali. "Donna-A web based AI Personal Assistant." International Journal of Computer Applications 175, no. 8 (2017): 7-12.

10. Pooja R Shah, Tarini D Shah and Swati Mali. Automated Pun Generator. International Journal of Computer Applications 166(7):18-22, May 2017.

11. Choksi, Bhaumik & Venkitaraman, Ajay & Mali, Swati., "Finding Best Fit for Hand-Drawn Curves using Polynomial Regression", International Journal of Computer Applications. 174. Vol 20, Issue 23. 10.5120/ijca2017915390, 2017.

12. Bhaumik Choksi, Alisha Sawant and Swati Mali, "Style Transfer for Audio using Convolutional Neural Networks", International Journal of Computer Applications Volume 175, Issue 8, Pages 17-20, October 2017

13. Snehal V. Pawar, Prof. Swati Mali, "Sentiment Analysis in Marathi Language", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume 5 Issue 8 ,ISSN: 2321-8169, PP: 21 – 25, August 17.

14. Neha Talokar, Swati Mali, "Identity Resolution across Different Social Networks using Similarity Analysis", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume 5, Issue 8, ISSN: 2321-8169, PP: 26 – 30, August 2017

15. Abhiraj Kale, Aamir Baugwala, Hiral Patel, Swati Mali, "Real-Time Sign Language Recognition in Video Conferencing with DTW and MediaPipe, "Grenze International Journal of Engineering and Technology, Volume 11,Issue 1, 2025, Pages: 770-778, Grenze ID:

01.GIJET.11.1.538

International conference

1. Swati Mali, Sangita Nagpure, "Advanced Encryption Standard" Proceedings on The International Conference on Information Security, INFOSEC 2004.
2. Swati Mali, Uday Joshi, "Data Classification and assessment" Proceedings of the International Conference on Data Engineering, ICDEM 2008.
3. Swati Mali, Uday Joshi, "Secure Data Storage" Proceedings of International Advance Computing Conference, Thapar University, Patiala, IACC'09.
4. Swati Mali and B B Meshram, "Focused Web Crawler with Page Change Detection Policy", IJCA Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET) (9):51-56, 2011.
5. Mali, S., S. Ninoriya, and B. B. Meshram. "Freshness tuning in focused crawler." In Proceedings of the International Conference & Workshop on Emerging Trends in Technology, pp. 548-552. 2011.
6. Swati Mali, B B Meshram ,"Implementation of multiuser personal web crawler", Proceedings on CSI Sixth International Conference on Software Engineering, Indore, CONSEG 2012. Published in IEEE explore, Online edition
7. A Dhuri, J Vipani, J Bhanushali, S Mali, "Touch and accelarate :Pc and gaming controller using accelerometer sensor", Proceedings on International conference in computer science and engineering, Banglore, ICCSE 2013. ISBN-978-93-82208-83-985
8. Swati Mali, "Implementation of Internet Based Content Delivery Practices", 4th International Conference on Transformation in Engineering Education, At Vardhman College of Engineering, Hyderabad, Jan 6-8,2017
9. Bhatt, Ushma, Divya Iyyani, Keshin Jani, and Swati Mali. "Troll-Detection Systems Limitations of Troll Detection Systems and AI/ML Anti-Trolling Solution." In 2018 3rd International Conference for Convergence in Technology (I2CT), pp. 1-6. IEEE, 2018.
10. R. Mistry, G. Thatte, A. Waghela, G. Srinivasan and S. Mali, "DeCaptcha: Cracking captcha using Deep Learning Techniques," 2021 5th International Conference on Information Systems and Computer Networks (ISCON), 2021, pp. 1-6, doi: 10.1109/ISCON52037.2021.9702512.
11. S. More, N. Kadam, S. Savla, S. Shelar, A. Shah and S. Mali, "CaptureIt! - A Web-based Attendance System Using Face Recognition," 2021 IEEE 6th International Forum on Research and Technology for Society and Industry (RTSI), 2021, pp. 91-96, doi: 10.1109/RTSI50628.2021.9597350.
12. S. Jaiswal, J. M. Tellis, R. Kabra and S. Mali, "COVID-19 Detection From Chest X-Ray Using Deep Learning and Contrast Enhancement," 2021 International Conference on Computational Intelligence and Computing Applications (ICCICA), 2021, pp. 1-5, doi: 10.1109/ICCICA52458.2021.9697160.
13. A. Mhatre and S. Mali, "Progressive Web Applications, a New Way for Faster Testing of Mobile Application Products," 2023 3rd Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2023, pp. 1-6, doi: 10.1109/ASIANCON58793.2023.10269806.
14. A. Mhatre et al., "Development of Active Toy for Increasing Eye-Hand Coordination and Reaction Time Among Toddlers," 2023 3rd Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2023, pp. 1-6, doi: 10.1109/ASIANCON58793.2023.10270400.
15. Lewis, Rylan Nathan, Mustafa Motiwala, Shlok Bhura, and Swati Mali. "Comparative Study of Vision Transformers for ASD Detection in Toddlers Using Facial Features." In 2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), pp. 500-507. IEEE, 2024.
16. Sharma, Chirag, Anirudha Ta, Tejas Pundlik, Uditi Sinha, Sarfaraz Shaikh, Atharva Tambe, Swati Mali, and Archana Gupta. "Kisan Sevak: A Comprehensive Mobile-based Diagnosis

System for Sustainable Agriculture." In Technologies for Energy, Agriculture, and Healthcare, pp. 258-266. CRC Press, 2025.

17. Tikoo, Divya, Nandhini Ramesh, Atharva Vaidya, Rutva Ashwin Vora, and Swati Mali. "Anomaly Detection in Transactions using Machine Learning: A Comparative Study." In Proceedings of the 6th International Conference on Information Management & Machine Intelligence, pp. 1-7. 2024.

Work listed in scopus :

1. R. Mistry, G. Thatte, A. Waghela, G. Srinivasan and S. Mali, "DeCaptcha: Cracking captcha using Deep Learning Techniques," 2021 5th International Conference on Information Systems and Computer Networks (ISCON), 2021, pp. 1-6, doi: 10.1109/ISCON52037.2021.9702512.

2. S. Jaiswal, J. M. Tellis, R. Kabra and S. Mali, "COVID-19 Detection From Chest X-Ray Using Deep Learning and Contrast Enhancement," 2021 International Conference on Computational Intelligence and Computing Applications (ICCICA), 2021, pp. 1-5, doi: 10.1109/ICCICA52458.2021.9697160.

3. S. More, N. Kadam, S. Savla, S. Shelar, A. Shah and S. Mali, "CaptureIt! - A Web-based Attendance System Using Face Recognition," 2021 IEEE 6th International Forum on Research and Technology for Society and Industry (RTSI), 2021, pp. 91-96, doi: 10.1109/RTSI50628.2021.9597350

4. Bhatt, Ushma, Divya Iyyani, Keshin Jani, and Swati Mali. "Troll-Detection Systems Limitations of Troll Detection Systems and AI/ML Anti-Trolling Solution." In 2018 3rd International Conference for Convergence in Technology (I2CT), pp. 1-6. IEEE, 2018.

5. Swati Mali, B B Meshram ,"Implementation of multiuser personal web crawler", Proceedings on CSI Sixth International Conference on Software Engineering, Indore, CONSEG 2012. Published in IEEE explore, Online edition

6. Swati Mali and B B Meshram, "Focused Web Crawler with Page Change Detection Policy", IJCA Proceedings on International Conference and workshop on Emerging Trends in Technology (ICWET) (9):51-56, 2011.

7. Mali, S., S. Ninoriya, and B. B. Meshram. "Freshness tuning in focused crawler." In Proceedings of the International Conference & Workshop on Emerging Trends in Technology, pp. 548-552. 2011.

8. Mhatre, Aatmaj, and Swati Mali. "Progressive Web Applications, a New Way for Faster Testing of Mobile Application Products." In 2023 3rd Asian Conference on Innovation in Technology (ASIANCON), pp. 1-6. IEEE, 2023.

9. Mhatre, Aatmaj, Tejas Pundlik, Kedar Kulkarni, Ved Mulik, Shubraja Lalith, Zaidali Merchant, and Swati Mali. "Development of Active Toy for Increasing Eye-Hand Coordination and Reaction Time Among Toddlers." In 2023 3rd Asian Conference on Innovation in Technology (ASIANCON), pp. 1-6. IEEE, 2023.

10. Sharma, Chirag, Anirudha Ta, Tejas Pundlik, Uditi Sinha, Sarfaraz Shaikh, Atharva Tambe, Swati Mali, and Archana Gupta. "Kisan Sevak: A Comprehensive Mobile-based Diagnosis System for Sustainable Agriculture." In Technologies for Energy, Agriculture, and Healthcare, pp. 258-266. CRC Press, 2025.

11. Lewis, R.N., Motiwala, M., Bhura, S. and Mali, S., 2024, November. Comparative Study of Vision Transformers for ASD Detection in Toddlers Using Facial Features. In 2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI) (pp. 500-507). IEEE.

National Conferences

1. Swati Mali, Pinki V, "Why cryptosystems fail", Proceedings of National conference on Cryptography, NCW 2005.

2. Swati Mali, Uday Joshi, "Embedding Covert channels in TCP_IP layers" Proceedings of the National conference, NCICM 2008.

3. A Rao, A Shetty, A Kamath, S Mali, "Easy Shoppee Mobile Application", Proceedings on International Conference of Electrical Engineering and Computer Science, Coimbtore,

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| ICEECS 2013. |
| 4. A Kolhe, N Patel, S Kulkarni, S Mali "Disease Treatment Relationship Recognizer", Proceedings on - National Conference on Computing and Information Technology, Mumbai ,NCCIT 2013. |

| Patents/Copy Rights : |
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| No of Research / consultancy / projects completed: 01<br>Rs: INR 30,000/- | No of Research / consultancy / projects on-going: Zero<br>Rs: NA | No of Research / consultancy / projects on applied as on date: Zero<br>Rs: |
|---|---|---|

| Details of Research / consultancy / projects: |
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| Completed for iSec services Pvt Ltd<br>   1. Mobile computing location sensing and advising app<br>   2. Comparing iSAT (information Security Auditing product of iSec) with available products and incorporating the newer features<br>   3. Monitoring and reporting product<br><br>On-going: Zero<br><br>Applied: Zero |

| IPR/ Copyrights : |
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| 1. "Trojankraft: Automated Python Sdk For Automated Windows Trojan Maker", in 2025. SW-20072/2025 |

| **FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered** |
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| Attended<br>   1. Attended & Participated in the conference INFOSEC 2004 held at Indian Merchant Chamber's, Mumbai 0n May 7, 2004.<br>   2. Attended Seminar on .NET technology held at IIT Powai in June 2003.<br>   3. Attended Seminar on .NET technology held at Taj Lands End in September 2004.<br>   4. Attended two week STTP on Applications of Internet Technologies and E-Commerce at National Institute Of Technology, Surathkal, Karnataka from January 6, 2003 to January 18, 2004.<br>   5. Attended a distance education program on Distributed Systems at IIT Mumbai from August 2003 to November 2003.<br>   6. Attended a training program on "Project Management" Organized by TCS, at KJSCE, Mumbai, 2007.<br>   7. Attended two week STTP on Applications of Agile Methodologies and Extreme Programming at IIT Madras from May 19 to May 31, 2008.<br>   8. Attended conference INTERFACE 2010 held at Veermata Jijabai Technological Institute, Matunga, Mumbai-19 0n December 17, 2010.<br>   9. Attended International conference ICWET 2011 held at Thakur College of Engineering , Kandivali 0n February 04-05,2011<br>  10. Attended two week shorkshop on "Research Methodology" organized by IIT Bombay at K J Somaiya CoE, Remote Center, Jan 09-Feb 02,2013<br>  11. Attended a One Week Workshop on "Essentials of Software Testing and quality assurance" by IBM at K j Somaiya College of Engineering, Jan 09-12,2014<br>  12. Attended a One Week Workshop on "The Open Group Architecture Framework" by CSI organized at CSI, Andheri, Mumbai, Jan 28-31,2014<br>  13. Attended a one week workshop coordinator's workshop on "Introduction to Algorithms" organized by IIT Kharagpur under NMEICT, T10KT project by MHRD, March 16-20, 2015<br>  14. Attended a one day workshop on "Virtual Laboratory" by IIT Bombay, at KJSCE, April 23,2015<br>  15. Attended a Two day conference "IT-2020 " by CSI at University of Mumbai, Jan 21-22 2016<br>  16. Attended a two day workshop on "Open source tools for Digital Forensics" at FCRCE, Bandra, Mumbai , Jan 29-30,2016<br>  17. Attended CapGemini Tech Fiesta on March 07,2016 at Capgeimi, Vikhroli.<br>  18. Attended a four week STTP on "Use of ICT for online and blended learning" organized by IIT Bombay |

under NMEICT, T10KT project by MHRD, May 02-July 10, 2016
19. Attended a half day workshop on "Experiential Learning" at KJSCE on July 04,2016
20. Attended a workshop on "Security Audit Training" Conducted by Mr. Sanjay Pandey, Addln DG, Maharashtra, at KJSCE on Dec 2-3,2016
21. Attended a ISTE organised STTP on "SMAC" at KJSCE during Dec 5-9,2016
22. Attended a half day remote center coordinator's workshop at IIT Bombay on March 30,2017.
23. Attended a workshop on Hands-on: Big Data Analytics by SAS at SPIT, Andheri, May 27-29,2019.
24. Attended a one day program on "Python for Machine Learning" by IIT Bombay on June 22,2019

Organized
1. Contributed in ISTE approved STTP on "Open Source tools" organized by dept of Computer Engineering
2. Contributed in ISTE approved STTP on "Information and System Security: Today and Tomorrow" in Dec 2005
3. Participated in organizing national conference on "Emerging trends in Computers, Communication and IT", in March 2009
4. Organized a workshop on "Security Audit Training" Conducted by Mr. Sanjay Pandey, Addln DG, Maharashtra, at KJSCE on Dec 2-3,2016

Delivered
1. Delivered a lecture on "Google classroom, flipped classroom, open educational resources and common creative license" to faculty members of department of IT on Jan 18,2017
2. Delivered a lecture on "Cyber Security awareness" organized for support staff of KJSCE
3. Delivered a lecture on "Cyber Security awareness" organized for faculty members of KJSCE
4. Delivered a lecture on "Applications of Artificial Intelligence" for LY Mech students, Nov 2021
5. Delivered a lecture on "Expert systems and its applications" for Honors in AI, Computer Vision and Robotics students, April 2022
6. Delivered a lecture on "Cyber Security awareness" organized by IQAC KJSCE, on March 02,2022.
7. Delivered a National Level Webinar on " Cyber Security Awareness" on 28 September 2022 organized by SST college of Arts and Commerce, Ulhasnagar
8. Delivered a talk on "AI and Machine Learning" as part of Event Horizon in Feb 2023

| | Notable Key Scholastic Achievements |
|---|---|
| 1. | Received "Excellence in Teaching" by Students' Council, KJSCE, in 2006 |
| 2. | Received Appreciation for being Admin and consultant for Facebook Page of Anti-corruption Bureau, Maharashtra on behalf of KJSCE since August 2014 till August 2016 |
| 3. | Received Copyright for "Trojankraft: Automated Python Sdk For Automated Windows Trojan Maker", in 2025 |
| 4. | Reviewer for "Humanities and Social Sciences Communications" Since 2023 |
| 5. | Life Member of Indian Society of Technical Education, India, since 2002. |
| 6. | Life Member of Cryptological Research Society of India, since 2005. |
| 7. | Life Member of Computer Society of India, since 2006. |

| | Notable Positions and Responsibility |
|---|---|
| 1. | Participated as a subject expert in the Lab Manual Development Program of MSBTE for the subject Computer Networks, Second year Diploma, Computer Engineering, organized in BVIT, Navi Mumbai, in 2001-2002. |
| 2. | Participated as a subject expert in the Lab Manual Development Program of MSBTE for the subject C Programming, First year Diploma, Computer Engineering, organized in BVIT, Navi Mumbai, in 2001-2002. |
| 3. | Remote Center Coordinator for remote center at KJSCE, run by National Mission on Education through ICT, MHRD Project, April 2016-Feb 2018 |
| 4. | Peer reviewed papers for International Conference on Technologies for Sustainable Development [ICTSD2015], Organized by Don Bosco Institute of Technology, Kurla, Mumbai, in 2015 |
| 5. | Instrumental in student projects at Maharashtra Police for Feb2014-May 2015 |
| 6. | Instrumental in student projects at Anti-corruption Bureau, Maharashtra for Mar 2014- Dec 2015 |

# Somaiya Vidyavihar University

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| 7. | Faculty coordinator for KJSCE Outreach center for Civil Defence since Dec 2016-Feb 2018, Sept 2018 till May 2022 |
| 8. | Peer reviewed papers for 3rd Biennial International Conference on Nascent Technologies In engineering [ICNTE2017], Organized by FCRIT, Vashi, Jan 2019-Dec 2022 |
| 9. | Convener, Project Competition Committee, KJSSE, Since July 2025 |
| 10. | SPOC, SIH 2025 for Smart India Hackathon, an initiative of MOE's Innovation Cell |

**Date:   03 / 10   / 2025**                                          **Signature of Faculty Member**