

Curriculum Vitae

Dr. Sunil D. Kale

Email Id: kalesunild@gmail.com

Objective:

With the passion to excel and the temperament to succeed, I would like to grow along with the organization, utilize my skills, ability and confidence in the competitive world of Information Technology for the benefits of the organization and self.

Academics:

Ph. D. (Computer Engineering) from Savitribai Phule Pune University, Pune (Maharashtra)

M.Tech (Computer Sci. & Engg.) from Visvesvaraya Technological University, Belgaum (Karnataka)

BE (Computer Sci. & Engg.) from Government College of Engineering, Aurangabad (Maharashtra)

Sr. No.	Examination passed	Year of passing	Percentage	Class
1	Ph. D. (Computer Engineering)	2019	Registered – 18 July 2014 Awarded – 05 July 2019	
2	M. Tech. (CSE)	2011	62.45	First
3	B. E. (CSE)	2002	63.54	First
4	H.S.C.	1997	63.67	First
5	S.S.C.	1995	74.71	First

Professional Profile: **Total Experience 20 Years [UGC Approved 18 Years]**

Name of organization : **Veermata Jijabai Technological Institute, Mumbai.**
Designation : Assistant Professor
Duration : 02 April 2024 to till date

Name of organization : **Vishwakarma Institute of Information Technology, Pune.**
Designation : Associate Professor
Duration : 09 June-2023 to 01 April 2024 [10 Months]

Name of organization : **Pimpri Chinchwad College of Engineering, Pune.**
Designation : Associate Professor
Duration : 02 March-2022 to 08 June 2023 [15 Months]

Name of organization : **Pune Institute of Computer Technology, Pune.**
Designation : Assistant Professor
Duration : 03 July-2017 to 28 Feb 2022 [4 Years 08 Months]

Name of organization : **Rajarshi Shahu College of Engineering, Pune.**
Designation : Assistant Professor

Duration : 01 July-2004 to 30 June-2017 [13 Years]

Name of organization : **Govt. College of Engineering, Aurangabad.**

Designation : CHB Lecturer

Duration : Jan-2003 to June 2003 [6 Months]

Subject Taught:

Discrete Mathematics, Probability and Statistics for Data Science, Machine Learning, Fault Tolerant Systems, Software Engineering & Project Management, Software Modeling and Design, Software Design Methodology and Testing, Human Computer Interface, Data Mining Techniques and Applications, Software Testing & Quality Assurance, Software Engineering, Advance Databases, Cloud Computing, Multimedia Systems, Management Information System, Financial & Management Information System, Fundamentals of Programming Language, Fundamental of Computer and Soft Skill.

Publications:

Publication of Linguistic Resource - Text Corpora

Author wise Marathi Language Text Corpus

Published by: Indian Language Technology Proliferation and Deployment Centre, Ministry of Electronics & Information Technology, MeitY, Govt. of India.

Available at: http://tdil-dc.in/index.php?option=com_download&task=viewtoolsbyParam&categoryid=125&lang=en

Date of first available online: 01 August 2018

Publications in Journal & Conference

Number of Papers in UGC/Scopus/ SCI Journal - 13

Indexing	No. of Papers	Post. Ph.D.
SCI	03	03
Scopus	07	06
UGC	03	--
Total	13	

Number of Papers in Scopus Conference - 08

Indexing	No. of Papers	Status
Scopus	04	Springer & IEEE Conference

Number of Peer Reviewed Journal & Conference- 09

Number of Papers in UGC/Scopus/ SCI Journal - 13

SCI Journal Publications

1. Sunil D. Kale et al. (2022) "Phishing URL detection using machine learning methods." *Advances in Engineering Software* 173 (2022): 103288. <https://doi.org/10.1016/j.advengsoft.2022.103288>
Indexing: **SCI, Scopus**

2. Pande SD, Gudipalli A, Joshi R, Chaudhari S, Dhabliya D, Ahammad SH, Kale SD. A Fuzzy-Based Slip Resistive Controller for Front Wheel Drive Autonomous Electric Vehicle. *Electric Power Components and Systems*. 2023 Aug 8:1-1. <https://doi.org/10.1080/15325008.2023.2246482>

3. Kachhoria R, Jaiswal S, Kharat RS, Pede S, Kale SD, Mahajan RA, Sharma P, Khadse CB. Adaptive SDN-based network architecture for vehicle to vehicle communication using flexible optical networks for 5G. *Optical and Quantum Electronics*. 2023 Nov;55(12):1041. <https://doi.org/10.1007/s11082-023-05303-9>

Scopus Journal Publications

1. Kale, S. D. ., Addimulam, S. C. ., Kumar, K. K. ., Avasthi, V. ., Sharma, S. ., & De, A. . (2024). Privacy Preserving Cyber Security System Framework for Secure Cloud-based Medical Data Transactions. *International Journal of Intelligent Systems and Applications in Engineering*, 12(21s), 40–47. <https://ijisae.org/index.php/IJISAE/article/view/5337>

2. Sunil D. Kale et.al, Marathi text summarization through NLP and deep learning mechanism, , *Journal of Autonomous Intelligence* (2023) Volume 6 Issue 3 doi: 10.32629/jai.v6i3.1009 <https://jai.front-sci.com/index.php/jai/article/view/1009>

3. Sunil D. Kale et.al. Lung pressure predictive model using LSTM: A deep learning techniques, *Journal of Autonomous Intelligence* (2023) Volume 6 Issue 3 doi: 10.32629/jai.v6i3.1001, <https://jai.front-sci.com/index.php/jai/article/view/1001>

4. Kale, S.D. , Prasad, R. , Potdar, G.P. , Mahalle, P.N. , Mane, D.T. and Upadhye, G.D. 2023. A Comprehensive Review of Sentiment Analysis on Indian Regional Languages: Techniques, Challenges, and Trends. *International Journal on Recent and Innovation Trends in Computing and Communication*. 11, 9s (Aug. 2023), 93–110. <https://doi.org/10.17762/ijritcc.v11i9s.7401>

5. Gite S, Mane DT, Mane V, Kale S, Dhotre P. Region-based Network for Yoga Pose Estimation with Discriminative Fine-Tuning Optimization. *International Journal of Intelligent Systems and Applications in Engineering*. 2023 Aug 16;11(10s):166-84. <https://ijisae.org/index.php/IJISAE/article/view/3243>

6. Mane D, Kale SD, Hedao A, Kulkarni P, Shinde S, Dhotre P. An Enhanced Fuzzy Hypersphere Neural Network for Pattern Classification. Volume 71 Issue 7, 94-104, July 2023, <https://doi.org/10.14445/22315381/IJETT-V71I7P210>

7. Kale, S. D., and Prasad, R. S. (2018) , "Author Identification using Sequential Minimal Optimization with rule-based Decision Tree on Indian Literature in Marathi", **Elsevier**: Procedia

Computer Science, 132, 1086-1101. <https://doi.org/10.1016/j.procs.2018.05.024>

UGC Listed Journal Publications

1. Sunil D. Kale and Rajesh S. Prasad (2018), "Author Identification on Imbalanced Class Dataset of Indian Literature in Marathi", International Journal of Computer Sciences and Engineering, Vol.6, Issue.11, pp.552-557, 2018. <https://doi.org/10.26438/ijcse/v6i11.552557> Indexing: Indian Citation Index, Google Scholar, DPI Digital Library [UGC Listed Journal]
2. Kale, S. D., and Prasad, R. S. (2017), "A Systematic Review on Author Identification Methods", International Journal of Rough Sets and Data Analysis (IJRSDA)", 4(2), 81-91. DOI: [10.4018/IJRSDA.2017040106](https://doi.org/10.4018/IJRSDA.2017040106) Indexing: ACM Digital Library, Google Scholar [UGC Listed Journal]
3. Shubhesh Amidwar and Sunil Kale (2017), "Text Analysis for Author Identification using Machine Learning", International Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Vol.4, Issue 6, page no.138-141, June-2017, <http://www.jetir.org/papers/JETIR1706030.pdf>, Indexing: Google Scholar [UGC Listed Journal]

Scopus Conference Publications

1. Dhabliya D, Rizvi N, Dhablia A, Sridhar AP, Kale SD, Padhi D. Securing Machine Learning Ecosystems: Strategies for Building Resilient Systems. InE3S Web of Conferences 2024 (Vol. 491, p. 02033). EDP Sciences. <https://doi.org/10.1051/e3sconf/202449102033>
2. Upadhyay, A., Kulkarni, S., Roy, S., Yuvaraj, K., Ashok, V. and Kale, S.D., 2023, December. Understanding the Limitations of Secure Shell (SSH) in Wireless Network Security. In 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) (pp. 1-7). IEEE. [10.1109/SMARTGENCON60755.2023.10442957](https://doi.org/10.1109/SMARTGENCON60755.2023.10442957)
3. Aggarwal, P., Singh, S., Batri, K., Velusudha, N.T., Kale, S.D. and Shrimal, G., 2023, December. Investigating the Big Data Challenges of Deep Learning for Data Science. In 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) (pp. 1-7). IEEE. [10.1109/SMARTGENCON60755.2023.10441849](https://doi.org/10.1109/SMARTGENCON60755.2023.10441849)
4. Kale, S.D., Samrat, B., Varalakshmi, S., Tiwari, M. and Singh, V., 2023, December. Adaptive Bandwidth Optimization Techniques for Underwater Fiber Optic Networks. In 2023 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) (pp. 1-6). IEEE. [10.1109/SMARTGENCON60755.2023.10442135](https://doi.org/10.1109/SMARTGENCON60755.2023.10442135)
5. Sunil D. Kale et al. (2023) "Text Document Categorization and Semantic Text Analytics: A Neural Network Approach" Grenze International Journal of Engineering and Technology, Jan Issue. Grenze ID: 01.GIJET.9.1.522_3
6. Sunil D. Kale and Rajesh Prasad (2020), "Influence of Language Specific Features for Author Identification on Indian Literature in Marathi" Advances Intelligent Systems and Computing, Springer publication, ISSN: 2194-5357. https://doi.org/10.1007/978-981-15-2475-2_59 Indexing: Scopus, Google Scholar and Springer link

7. Kale, S. D., and Prasad, R. S. (2018), "Author Identification on Literature in Different Languages: A Systematic Survey", In 2018 International Conference On Advances in Communication and Computing Technology (ICACCT) (pp. 174-181). **IEEE**. [DOI: 10.1109/ICACCT.2018.8529635](https://doi.org/10.1109/ICACCT.2018.8529635) Indexing: **Scopus**

8. Mehta, Tanvi, Renu Kachhoria, Swati Jaiswal, Sunil Kale, Rajeswari Kannan, and Rupali Atul Mahajan. 2024, "Emails Classification and Anomaly Detection using Natural Language Processing." In Data-Centric Artificial Intelligence for Multidisciplinary Applications, pp. 271-292. Chapman and Hall/CRC. <https://doi.org/10.1201/9781003461500>

Patent

1. Patent Application No. 202321032294 filed on 07 May 2023, Title "SIGN LANGUAGE INTERPRETER SYSTEM, DEVICE AND A METHOD THEREOF" to the Patent office, Mumbai.
2. Patent Application No. 202321051578 filed on 01 Aug 2023, Title "AN INTEGRATED SMART TRANSPORT SYSTEM" to the Patent office, Mumbai.

International Peer reviewed Journal Publication (Not Indexed in SCI/Scopus)

1. Sunil D. Kale et al. (2023) "Depression Detection and Mental Health Tracker Using Machine Learning" International Research Journal of Modernization in Engineering Technology and Science, volume 5, issue 4, Pages 6996-7004

2. Sunil D. Kale et al. (2023) "A Comprehensive Review on Depression Detection and Mental Health Tracker Using Machine Learning" International Research Journal of Modernization in Engineering Technology and Science, volume 5, issue 4, Pages 5323-5330. DOI : <https://www.doi.org/10.56726/IRJMETS37194>

3. Sunil D. Kale et al. (2023) "Posture Detection and Comparison of Different Physical Exercises Based on Deep Learning Using Media Pipe, Opencv" International Journal of Scientific Research in Engineering and Management ISSN: 2582-3930, volume 7, issue 4

4. Nikhil Shrivastva and Sunil Kale (2015), "A New Approach for Cloud Data Security: from Single to Cloud-of-Clouds", International Journal of Advances in Computer Science and Cloud Computing, ISSN: 2321-4058 Volume- 3, Issue- 1, May-2015, Indexing: Google Scholar [**UGC Listed Journal**]

5. Bhamre Pranjal and Sunil Kale (2016), "Generating Effective Patterns having Relevance with Set of Input Documents Given", International Journal Of Electrical, Electronics And Data Communication, ISSN: 2320-2084 Volume-4, Issue-6, page no.5-8, Jun.-2016, Indexing: Google Scholar, Cite Factor

6. Nikhil Puri and Sunil Kale (2016), "Privacy Preserving Association Rules Mining In Horizontally Distributed Databases", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 3, Issue 4, April 2016, Indexing: Thomson Reuters, Google Scholar

National International Peer Reviewed Conference Publication (Not Indexed in SCI/Scopus)

1. Sunil D. Kale and Rajesh Prasad (2016), “Author Identification on Dataset scale size: A systematic Survey”, 2016 International Conference on Innovative Engineering and Technologies, Indexing: Thomson Reuters
2. Sunil D. Kale and Rajesh Prasad, “Author Identification: review on Training Data Size”, Fifth Post Graduate Conference of Computer Engineering, cPGCON 2016.
3. Sunil D. Kale and Rajesh Prasad, “A survey on Author Identification”, International Conference on Internet of Things, Next Generation Networks and Cloud Computing 2016.

Details of Experience of Working with national Bodies, Participation in Workshops, Seminars, and Conferences held Within the Country:

Sr. No.	Type of Activity	Activity	Place	Year
1	Coordinator	Next Generation Artificial Intelligence	Vishwakarma Institute of Information Technology, Pune	2024
2	Organizing Chair, Session Chair & Reviewer	Vishwacon 2023 -Women health	Vishwakarma Institute of Information Technology, Pune	2023
3	Track Chair	International Conference on Computing Communication Control and Automation 2023	Pimpri Chinchwad College of Engineering, Pune.	2023
4	Reviewer	International Conference on Computing Communication Control and Automation 2022	Pimpri Chinchwad College of Engineering, Pune.	2022
5	Reviewer	2nd International Conference on Advanced Trends in Computer Science & Information Technology (ICATCSIT-2020) organized by Department of Computer Engineering	Rajarshi Shahu College of Engineering, Pune	2020
6	Reviewer	"Emerging Trends in AI and Big Data (ETAB-2020)	Pune Institute of Computer Technology, Pune	2020
7	Attended	Attended one week AICTE approved STTP on “Developing Pedagogy for Effective Implementation of Outcome based Education in Engineering Institutes” 14 to 19 Dec 2020	Pune Institute of Computer Technology, Pune	2020
8	Participation	Presented paper “Influence of Language-Specific Features for Author Identification on Indian Literature in Marathi” 21 & 22 June 2019	Malla Reddy College of Engineering & Technology, Hyderabad	2019
9	Organization	Two day state level workshop on “Statistic in Data Science” on 19 & 20 Jan 2018	Pune Institute of Computer Technology, Pune	2018
10	Participation	Presented paper “Author Identification on Literature in Different Languages : A	IEEE 2018 ICACCT, Amrutvahini College of	2018

		systematic Survey” 08 & 09 Feb 2018	Engineering, Sangamner	
11	Participation	Workshop on “Big Data and Machine Learning” 07 & 08 April 2018	Dept. of Computer Engg. The NorthCap University, Gurugram	2018
12	Participation	Two day FDP on “ Software Modelling & Design” on 27 & 28 Dec 2017	D.Y. Patil College of Engineering, Pune	2017
13	Participation	One day Workshop on “Research Paper Writing: Tips and Tricks” on 06 Feb 2017	Smt. Kashibai Navale College of Engineering, Pune	2017
14	Participation	Presented paper “A Survey on Author Identiation” in ICINC 2016, on 26 to 28 Feb 2016	Smt. Kashibai Navale College of Engineering, Pune	2016
15	Participation	Presented paper “Author Identification: Review on Training Data Size” in ePGCON 2016, on 25 to 26 March 2016	Pimpri Chinchwad College of Engineering, Pune.	2016
16	Participation	One day Workshop on “Content Preparation using Latex” on 15 July 2016	Smt. Kashibai Navale College of Engineering, Pune	2016
17	Attended	Attended one week ISTE approved STTP on “Machine Learning and Computational Intelligence” from 25 May 2015 to 29 May 2015	Sinhgad College of Engineering, Pune	2015
17	Participation	One week FDP on “Teaching Methodology in Computer Engineering” from 04 to 10 June 2015	Rajarshi Shahu College of Engineering, Pune	2015
18	Participation	One week FDP on “Laboratory assignment in Computer Engineering” from 30 Nov to 05 Dec 2015	Rajarshi Shahu College of Engineering, Pune	2015
19	Participation	Attended two week FDP on Advanced Database Management System from 1 Dec 2014 to 13 Dec 2014.	Imperial College of Engineering and Research, Pune	2014
20	Participation	Attended two week FDP on Teaching Methodologies in Computer Engineering from 02 Dec 2013 to 13 Dec 2013.	Imperial College of Engineering and Research, Pune	2013
21	Participation	Attended two week FDP on Teaching Methodologies in Computer Engineering from 03 June 2013 to 14 June 2013 at RSCOE, Pune.	Imperial College of Engineering and Research, Pune	2013
22	Participation	One day FDP on “Discrete Structure” on 20 July 2013	Anantrao Pawar College of Engineering & Research, Pune	2013
23	Participation	Two day workshop on “Enterprise	Vishwakarma	2010

		Computing based on System z” on 11 & 12 Aug 2010	Institute of Technoogy, Pune	
24	Participation	Participated Soft Skill Workshop held at Infosys Technologies, Pune from 28 Oct to 02 Nov 2007	Infosys Technologies, Pune	2007
25	Participation	One day workshop to discuss implementation of new syllabus of BE Comp Sem-II on 05 Feb 2007	Rajarshi Shahu College of Engineering, Pune	2007
26	Participation	Workshop on “Developing Teaching Competencies” from 20 to 31 Dec 2004	National Institute of Teachers Training & Research, Pune	2004
27	Participation	Two-day workshop for preparation of TE Comp & IT syllabus on 17 & 18 Dec 2004	Rajarshi Shahu College of Engineering, Pune	2004

Details of Administrative Experience:

Sr. No.	University / Institution / Organization	Post	Nature of Duties	From	To	Government / Private	Total (in years and months)
1	Pimpri Chinchwad College of Engineering, Pune.	Member – Department Undergraduate Program Committee	Verification of theory & Termwork marks, question paper, marking scheme, action on student feedback, decision if any etc.	24/01/2023	08/06/2023	Private	05 Months
2	Pimpri Chinchwad College of Engineering, Pune.	SIG Coordinator	Special Interest Groups Coordination	24/01/2023	08/06/2023	Private	05 Months
3	Pimpri Chinchwad College of Engineering, Pune.	In charge: NBA Criteria V – Faculty Information & Contribution	Preparing files as per NBA guidelines	01/09/2022	08/06/2023	Private	10 Months
4	Pimpri Chinchwad College of Engineering, Pune.	Member - Program Assessment Committee	Program Assessment	01/09/2022	08/06/2023	Private	10 Months
5	Pimpri Chinchwad College of Engineering, Pune.	Research & Development Facilitation Cell	Quality Publications	19/07/2022	08/06/2023	Private	01 Year
6	Pimpri	Dept.	Conducting	19/07/2022	08/06/2023	Private	01 Year

	Chinchwad College of Engineering, Pune.	Coordinator Institute of Innovation Council	scheduled and assigned Quarter wise Activities				
7	Pimpri Chinchwad College of Engineering, Pune.	Department – Smart India Hackathon Coordinator	Finalizing Teams to participate from department in SIH 2022	24/03/2022	08/06/2023	Private	01 Year 02 Months
8	Pimpri Chinchwad College of Engineering, Pune.	Research & Development Coordinator	Coordination of BE Project, TE Seminar, IPR, Entrepreneur Cell of Dept., Maintaining data of faculties & students about research & innovation	04/03/2022	08/06/2023	Private	01 Year 03 Months
9	SPPU, Faculty of Engineering, Board of Study in Computer Engineering	Chairman - Paper / Subject : Paper-Human Computer Interface (410253B) , (sem-II)	Paper Setting and Assessment	Jan 2022	June 2022	Government	06 Months
10	Exam Section, SPPU, Pune	External Senior Supervisor for University Theory Exam	University Theory Exam Coordination	01 Dec 2019	12 Dec 2019	Government	12 Days

Other Information:

- Resource person for the session on “Machine Learning – Text Mining” for TE & ME Students.
- Resource person for the session on “White box testing techniques” for SE Students.
- Guide for UG (23 Groups) and PG (04 students).
- Syllabus Designed for ME Data Science (2020-21), for following subjects:-
Machine Learning
Information Management
Systems Deep Learning
- Patent Application No. 202321032294 filled on 07 May 2023, Title “SIGN LANGUAGE INTERPRETER SYSTEM, DEVICE AND A METHOD THEREOF” to the Patent office, Mumbai.
- Appreciation for participated and guided project in “Kshitij-2023”, An Innovative Product Exhibition of Patentable Projects organized by Pimpri Chinchwad College of Engineering on 13 May 2023.

I hereby declare that that above-mentioned information is to the best of my knowledge and belief.

Place: Pune

Date:

Dr. Sunil D. Kale