

**Name:**

Mrs. Urmila Mahadev Kalshetti

**Designation:**

Assistant Professor

**Contact Details:**

Email id: [umk\\_it@pvgcoet.ac.in](mailto:umk_it@pvgcoet.ac.in)

Phone Number with extension: 020 24228258 / 65 / 79 Extn : 239 **Educational**

**Qualifications:**

- Pursuing PhD in Computer Engineering, Savitribai Phule Pune University.
- M. Tech. (Computer Engineering), Pune University, Pune, June 2009
- B.E. (Computer Science and Engineering), Shivaji University, Solapur, June 2001.

**Experience:**

- Teaching: 19 Years

**Research Interests:**

- Computer Vision, Machine Learning, Deep learning

**Research Projects:**

- Worked as a co-investigator for the BCUD project on “Machine translation of simple English sentences into Marathi sentences” in 2007.

## **Field of Consultancy (Aspiring):**

Theory of computation

## **Number of Publications:**

**International Journal: 02**

**International Conference: 09**

**Number of Books / Book chapters Published: 02**

**Number of FDPs / STTPs organized: 02**

**Number of Seminars organized: 03**

**Number of FDPs / STTPs attended: 14**

**Number of Conferences / Seminars attended: 03**

**Number of Online Certification Courses done: 5**

**Number of times served as a Resource Person: 12**

## **Details of Research papers published:**

1. Deshpande Atharva, Shruti Yadav, Mehak Gupta, and Urmila Kalshetti. "PodFast: Extractive Audio Summarization." In *ICT Infrastructure and Computing: Proceedings of ICT4SD 2022*, pp. 537-543. Singapore: Springer Nature Singapore, 2022. [https://link.springer.com/chapter/10.1007/978-981-19-5331-6\\_55](https://link.springer.com/chapter/10.1007/978-981-19-5331-6_55)
2. P. Parikh, S. Kalamdane, A. Rasal, K. Mundada and U. Kalshetti, "SPArK-Bot: An Educational Robotic Platform," 2022 IEEE Global Engineering Education Conference (EDUCON), 2022, pp. 1628-1633, doi: 10.1109/EDUCON52537.2022.9766694. <https://ieeexplore.ieee.org/document/9766694>
3. Paper published on "Predicting Appropriate Speed for Driving Based on External Factors" In: Tuba M., Akashe S., Joshi A. (eds) *ICT Systems and Sustainability. Lecture Notes in Networks and Systems*, vol 321. Springer, Singapore. [https://doi.org/10.1007/978-981-16-5987-4\\_77](https://doi.org/10.1007/978-981-16-5987-4_77) 2021-22
4. Paper Published on "Steering Angle Prediction in Autonomous Vehicles Using Deep Learning" Published in: 2019 5th International Conference On Computing,

Communication, Control And Automation (ICCUBEA) on 19-21 Sept 2019, Publisher: IEEE <https://ieeexplore.ieee.org/document/9128735> 2019-20

5. Paper Published on “Machine Learning for Cyber Defence” in International Journal of Pure and Applied Mathematics, Volume 118 No. 24 2018, ISSN: 1314- 3395 (on-line version) url: <https://www.acadpubl.eu/hub/2018-118-24/2/241.pdf> Special Issue- Scopus indexed Journal
6. Paper published on “Reputation based Malware Detection using support vector machine” Springer: Lecture notes on Data Engineering and Communication Technologies, volume 26, Nov 2018, Scopus indexed book series [https://link.springer.com/chapter/10.1007/978-3-030-03146-6\\_156](https://link.springer.com/chapter/10.1007/978-3-030-03146-6_156)
7. Paper published on ‘dynamic timetable generation using constraint satisfaction algorithm’ in © Springer India 2016 , S.C. Satapathy et al. (eds.), Proceedings of the Second International Conference on Computer and Communication Technologies, Advances in Intelligent Systems and Computing 379, DOI 10.1007/978-81-322-2517-1\_73 [https://link.springer.com/chapter/10.1007/978-81-322-2517-1\\_73](https://link.springer.com/chapter/10.1007/978-81-322-2517-1_73)
8. Paper published on “Support Vector Machine and Decision Tree for Intrusion Detection” in International Journal of Systems, Algorithms and Applications(IJSAA), Volume 2, Issue 4, April 2012, ISSN Online: 2277-2677 url: <https://www.proquest.com/openview/8f1c07aab573046838f0f926ca75ebc7/1?pg-origsite=gscholar&cbl=2028697>
9. Paper published on “Emotions reflecting chat application” in International Conference on Advances in Engineering, Science and Management (ICAESM), by IEEE, IEEE-International Conference On Advances In Engineering, Science And Management (ICAESM -2012), url: <https://ieeexplore.ieee.org/abstract/document/6215892>
10. Paper presented on ‘Efficient Intrusion Detection System Models’ in International Conference ICCNT 2009 in Chennai organized by IACSIT published by World Scientific url: [https://doi.org/10.1142/9789814289771\\_0039](https://doi.org/10.1142/9789814289771_0039)
11. Paper presented on ‘Translation of Simple English Interrogative Sentences into Marathi Sentences’ in International Conference ICWET 2010 organized by Thakur Engineering College, Mumbai. url: <https://dl.acm.org/doi/10.1145/1741906.1742237>

#### **Details of books / book chapters published:**

- “Reputation based Malware Detection using support vector machine” Springer: Lecture notes on Data Engineering and Communication Technologies, volume 26, Nov 2018, Scopus indexed book series

- 'Dynamic timetable generation using constraint satisfaction algorithm' in © Springer India 2016 , S.C. Satapathy et al. (eds.), Proceedings of the Second International Conference on Computer and Communication Technologies, Advances in Intelligent Systems and Computing 379, DOI 10.1007/978-81-322- 2517-1\_73

### **Details of FDPs / STTPs attended in last 5 years:**

1. One Day Syllabus Revision Online Faculty Orientation Programme on “Design and Analysis of Algorithms” (BE 2019 Course) organized by the Department of Computer Engineering, Modern Education Society's College of Engineering, Pune in association with Board of Studies (Computer Engineering), Savitribai Phule Pune University, Pune on 29th July 2022.
2. One Day Workshop on “Artificial Intelligence: Game based learning approach” on 10th Feb 2023 at Tolani Maritime Institute.
3. 3-days online workshop on Role of Engineering Mathematics in the New Education Policy-2020 organized by Department of Mathematics, under the School of Computational Sciences, COEP Technological University Pune, from August 3-5,2023.
4. Attended Mendeley Reference Manager: An Effective Way to Organized Research (210 minutes) at PVG COET, Pune, on Friday 18 August, 2023
5. One week FDP on Inculcating Universal Human Values in Technical Education organised by AICTE from 12th July 2021 to 16th July 2021
6. One week FDP On Interactive Teaching Learning Strategies with Affective & Cognitive Approach (ITLS) from 21st to 25th June 2021 organised by dept of ENTIC, PVGCOET, Pune
7. 3 days FDP on Outcome based Education organised by PVGCOET, Pune from 6, Oct 2020 to 8, Oct 2020
8. 3 days FDP on Outcome based Education organised by Indira College Of Engg & Management from 11th June to 13th June 2020
9. Attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands- on work on 'Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop' on 17 May 2020 organised 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
10. 1-week FDP organized by PVGCOET, Pune in association with Spoken Tutorial IIT Bombay on “Java” during 18<sup>th</sup> May 2020 to 22<sup>nd</sup> May 2020
11. 1-week FDP organized by PVGCOET, Pune in association with Spoken Tutorial IIT Bombay on “Drupal” during 18<sup>th</sup> May 2020 to 22<sup>nd</sup> May 2020
12. One day FDP on IOT organized by PVGCOET, Pune and MKCL on 8<sup>th</sup> Nov 2019.

13. 8-week FDP on Machine Learning by NPTEL-AICTE funded by MHRD, Govt of India during Aug and Sept 2019
14. Attended “BE Computer Engineering Syllabus Revision Meet” organized by Board of studies Computer Engineering, SPPU and ABMSP’S Anantrao Pawar College of Engineering & Research on 30<sup>th</sup> Jan,2018.

**Major Portfolios Handled: (college level and department level)**

- College level
  - Virtual Lab Regional Technical Coordinator
  - Spoken Tutorial Coordinator
  - DSC PVGCOET faculty advisor
  - Worked as SPOC for SIH 2020, SIH 2022 and SIH 2023
- Department level
  - Project coordinator from 2018-29 to 2022-23