# Faculty Profile

Name: Dr. Anupama Phakatkar

Designation: Assistant Professor in Computer Engg.

Email id: agphakatkar@pict.edu

Educational Background: Ph.D Computer Engineering

Date of Joining: 8/8/2002

Areas of Interest: Machine Learning, Recommendation Systems, Information Retrieval, Image Processing

List of publications, papers, books :

1. "Speech based Parkinson's Disease Detection using Machine Learning Techniques: A Survey." Available at SSRN 5161879 (2025).
2. "Parkinson's Disease Detection on Unbalanced Speech Data using Convolutional Neural Networks" Communications on Applied Nonlinear Analysis 32(2):202-214
   September 2024
3. "Image Tagging using Modified Association Rule based on Semantic Neighbors." International Journal on Recent and Innovation Trends in Computing and Communication, 11(8s), 279–289. https://doi.org/10.17762/ijritcc.v11i8s.7207
4. "Low Dimensional Relevance Coding for Personalized Tag Recommendation in Image Tagging Applications". *International Journal on Recent and Innovation Trends in Computing and Communication*, *11*(9), 4172–4178. https:// doi.org/10.17762 /ijritcc.v11i9.9785
5. "Image Tag Recommendation based on Ranked Categorical Nearest Neighbors and Weighted Tag Features", Advances in Science, Technology and Engineering Systems Journal (ASTESJ), Vol. 5, No. 6, 2020, pp. 1381-1386, ISSN: 2415-6698. (Scopus, DOI: 10.25046/aj0506166)
6. "Tag Recommendation Techniques for Images: A Survey," 3rd International Conference on Signal Processing (ICOSP 2017), Florence, Italy, pp. 116-122, December 2017. (doi: 10.18178/ijsps.5.4.116-122)
7. "Analysis of Flickr Images using Feature Extraction Techniques," IEEE International Conference on Computer and Communication Systems (ICCCS 2019), Singapore, pp. 278-282, February 2019, ISBN:978-1-7281-1323-4 (Scopus, DOI: 10.1109/ CCOMS. 2019. 8821651)
8. "Tag-based Image Retrieval using Hybrid Visual-Tag Feature Extraction Method", International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 4, 2020, pp. 5931 – 5940, ISSN: 2207-6360.
9. "Hybrid Feature based Classification of Images using Supervised Methods for Tag Recommendation," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 9, No. 11, 2020, pp. 135-138., ISSN 2278-3075. (https:// doi.org/ 10.35940/ijitee.k7732.0991120)
10. "Harmonic Mean based Classification of Images using Weighted Nearest Neighbor for Tagging", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 11, No 11, 2020, pp. 240-244, ISSN: 2156-5570. (Web of Science Core Collection: Emerging Sources Citation Index, doi:/10.14569/IJACSA.2020. 0111131)
11. Anupama D. Dondekar and Balwant A. Sonkamble, "Performance Analysis of Color and Texture Feature Extraction Techniques For Images," GIS Science Journal, Vol. 8, No. 12, 2021, pp. 1461-1469.

12. Sayali Saraf and Anupama Phakatkar, "Detection of Credit Card Fraud using a Hybrid Ensemble Model" International Journal of Advanced Computer Science and Applications (IJACSA), 13(9), 2022. http://dx.doi.org/10.14569/IJACSA.2022. 0130953
13. Mrs. Anupama Phakatkar, "Credit Card Fraud Detection using Machine Learning Techniques", Journal of Emerging Technologies and Innovative Research, June 2023, pp. c192-c197.
14. Mrs. Anupama Phakatkar, Deepa Agrawal , Manswi Asalkar, Ashwini Kurhe, Sonal Sonwane, "Price Movement Analysis using Machine Learning Approaches for Stock Price Movement using News", Journal of Emerging Technologies and Innovative Research, June 2023, pp. d675-d680.
15. Pooja Patil and Anupama Phakatkar, "Securing post-e-voting data through Blockchains", International Journal of Current Engineering and Technology, Dec 2020, pp. 1120-1123 E-ISSN 2277 – 4106.
16. Pooja Patil and Anupama Phakatkar, A Survey on Security of Electronic Voting Data Using Blockchain Technology, International Journal of Scientific & Technology Research, Volume 9 - Issue 4, April 2020, pp. 311-313 ISSN 2277-8616.
17. Kukdeja, Shreya and Anupama Phakatkar. "Enriching Image Retrieval System through CNN Namit Ganjewa, A.G Phakatkar ,"Efficient Knowledge Representation Integrated with Web Usage Mining for Webpage Recommendation", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 2, February 2016, pp. 2319 – 8753

**Participation in various activities in and outside college:**

1. Committee member in SPPU SE and BE syllabus workshop.
2. Chairman and Paper setter of various subjects at SPPU.
3. Resource person in one day faculty program "Data Structures and Algorithms" in Sandip Institute of Technology and Research Centre, Nashik
4. Resource person in one day faculty program "Fundamentals of Data Structures" in PICT, Pune
5. Resource person in Certification course on "Full stack Web Application Development: Demystified"
6. Resource person to conduct a faculty orientation program at Modern COE for the newly designed Course **Database Systems** under BOS of Computer Engineering.
7. Expert talk on B Tree and its application in ZEAL COE.
8. Committee member for organizing C-PGCON-2013 During 29th -& 30th March 2013 at PICT Pune

**Conference, seminar, workshop attended:**
1. 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 2nd January to 6th January 2023.
2. UGC Approved Short Term Professional Development Programme on "Implementation of NEP2020 for University and College Teachers", from December 21-31, 2022
3. FDP on "Outcome Based Pedagogic Principles for Effective Teaching" by NPTEL from 23 Feb to 24 Mar 2022
4. 6 days AICTE training on "Deep Learning Tools & Applications in Engineering & Science from 10 May to 15 May 2021 organized by MIT Alandi
5. Attended workshop on 'Blockchain and Use-cases" from 28 Dec 20 to 2 Jan 21 organized by VIIT, Pune
6. Attended two weeks (23 Nov to 5 Dec) FDP on "Emerging trends in Deep Learning and its Applications" organized by D.Y. Patil Institute of Technology, Pimpri

7. FDP on "Artificial Intelligence using Python" from 15/11/2021 to 19/11/2021 at Government Polytechnic
8. STTP on "Writing and Publishing high impact Research Publications and Scientific Documents" organized by Dept of IT at Rajlaxmi Engineering college from 5th Oct 20 to 10th Oct 2020
9. FDP on "Machine Learning and Application Areas" organized by Kolhapur Institute of Technology's College of Engineering
10. FDP on "Moodle Learning Management System", May 2020
11. FDP on "Python for Data Science" by NPTEL, Aug-Sep 2019

**Certificate Courses:**
1. Completed Coursera certification courses on
   a. Introduction to Data Science in Python
   b. Applied Machine Learning in Python
   c. Managing Big Data with MySQL
   d. Computer Vision Basics
   e. Data Mining
2. Completed NPTEL courses on
   a. Python for Data Science
   b. Outcome Based Pedagogic Principles for Effective Teaching