**DUDHMAL RITU S.**  
Assistant Professor – Computer Engineering  
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🏠 C-14, 4th Floor, Shraddha Garden, Near Telco Road, Chinchwad, Pune – 411033

**CAREER OBJECTIVE**

Dedicated and passionate academician with over 11.7 years of teaching and research experience in Computer Engineering. Currently pursuing Ph.D., with a strong foundation in Data Science, AI/ML and a consistent record of published research in reputed journals and conferences. Seeking to contribute expertise and grow within a dynamic academic/research environment.

**EDUCATIONAL QUALIFICATIONS**

| **Degree** | **Institution** | **Year** | **Result** | **Division** |
| --- | --- | --- | --- | --- |
| Ph.D. (Computer Engineering) | KL University, Andhra Pradesh | Pursuing | - | - |
| M.E. (Computer Engineering) | DYPIET, Pune (Pune University) | 2013 | CGPA: 7.20 | First Class |
| B.E. (Computer Engineering) | SSJOCOE, Dombivli (Mumbai University) | 2008 | 66% | First Class |

**WORK EXPERIENCE (11.7 Years)**

* **PCET’s Pimpri Chinchwad University, Pune**  
  Assistant Professor – CSE Department   
  Aug 2024 – Present
* **DIT, Pimpri, Pune**  
  Assistant Professor – AI & DS Department  
  July 2023 – Aug 2024
* **AISSMS College of Engineering, Pune**  
  Assistant Professor – Computer Department  
  Sep 2021 – June 2023
* **JSPM’s RSCOE, Pune**  
  Assistant Professor – Computer Department  
  July 2014 – March 2020
* **ARMIET, Asangaon, Mumbai**  
  Lecturer – Computer Department  
  Sep 2008 – Sep 2010

**RESEARCH PUBLICATIONS - 18**

**International Conference: - 07**

1. “Improved Deep Learning for Disease Detection using Blood Cells

Classification from Microscopic Images”, 5th Springer International Conference on

Computer Vision and Robotics (CVR 2025) held at National Institute of Technology, Goa during April 25 – 26, 2025.

1. “Student Concentration and Distraction in Online Learning Environments Using CNN”, 3rd IEEE International Conference on Device Intelligence, Computing, and

Communication Technologies (DICCT-2025) organised by the Department of Electronics and Communication Engineering, Graphic Era (Deemed to be University), Dehradun, India held on 21-22 March, 2025.

1. “Advances in Leaf Disease Detection: A comprehensive Review of Methods and Techniques“,International Conference on Nanoelectronics, Computational Intelligence & Communication systems (NCCS-2023).
2. “Cascading Multiple Activations of Augmmented Gene Regulatory Networks”, ICS2022 ( 2nd International Conference on “Intelegent Systems), 8th June 2022 .
3. ‘An Overview of Feature Based Opinion Mining’, ISTA-2016 held in LNMIIT, Jaipur, 21-24 Sept 2016, **Published in Springer.**
4. ‘Decision Tree Based Classification: A Data Mining Approach’, ASM, Pune, 3rd March 2012.
5. ‘Classification of data Objects Using ID3 Algorithm’,ICNDCETM-2012 held in Tasgaonkar College of Engg, Mumbai on 22nd March 2012.

**International Journal: - 10**

1. “Revealing Hidden Patterns: A Deep Learning Approach to Camouflage Detection”, Published in International Journal of Computational Methods and

Experimental Measurements (Scopus Journal), in March 2024, Vol.12 No.1, 97- 105.

1. “Twin-Attention Based Masked Swin Transformer with Unet for Anomaly Detection “ **accepted** in " International Journal of Computer Vision " (Scopus Journal) in Jan 2024.
2. “Cascading multiple activations of augmented gene regulatory networks” published in Journal of data Acquisition and Processing , ISSN: 1004-9037, Vol. 38 (2) 2023.
3. “Cricket Score Prediction Using Machine Learning”, Published in Turkish Journal of Computer and Mathematics Education(Scopus Journal), in April 2021, Vol.12 No.1S (2021), 23-28.
4. “Motion Aware Camouflage Modeling (MACM) for Foreground and Background Segmentation using Low-Rank Spatial and Temporal Feature Extraction”, Published in International Journal of Advanced Trends in Computer Science and Engineering –IJATCSE (Scopus Journal), in September - October 2020.
5. “Predicting Cricket Score By Using Machine Learning Concepts”, Published in International Journal of Grid and Distributed Computing, in 2020, Vol. 13, No. 1, (2020), pp. 2396– 2401.
6. “Moving Object Detection In Static Background Using Tensorflow”, Published in JARDCS (Scopus Journal) in June 2018.
7. “A review of various Camouflage moving object Detection Techniques”, Published in JEAS (Scopus Journal) in May 2018.
8. “Data mining and its Application”, Published in IJSART journal, Volume-1, Issu-11, Nov- 2015
9. ‘A comparison of decision tree algorithms on healthy eating system’, Published in IJIREM journal, Volume-1, Issue-3, November-2014 .

**National Conference: - 01**

1. ‘Disease Inference System on the basis of Health-Related Questions by using Sparse Deep Learning’, Dec-2015 held in JSPM’s RSCOE, Pune.

**INTELLECTUAL PROPERTY**

**Patents Published (02) :**

* Computer Vision and NLP based intelligent Sign Board detection and Recognition System

Date of Filing: 22/10/2021 Application Number : 202121048154 A

* System And Method for Image Processing Based GMI(Graded Motor Imagery)

Publication Date :- 4/2/2022 Application no. :-202121060477 A

**Copyright (01):**

1. Intelligent Sign Board Identification and Recognition System Based on Computer Vision and Natural Language Processing

Date of Filing: 23/10/2021 Application Number : 25825/2021-CO/L

**CERTIFICATIONS & COURSES**

1. **NPTEL Certification** on “Introduction to Machine Learning” on July- Sep 2022 (8 weeks).
2. **NPTEL Certification** on “Python for Data Science” on July- Sep 2022 (4 weeks).
3. Completed “Foundation Educator Training” as a part of **BLUE PRISM ACADEMIA** in the field of Robotics Process Automation on 27th Apr 2022.
4. Completed “Associate Developer Educator Training” as a part of **BLUE PRISM ACADEMIA** in the field of Robotics Process Automation on 27th Apr 2022.
5. Completed “ LaTeX Training” organized by **Spoken Tutorial Project, IIT Bombay**, funded by National Mission on Education Through ICT, MHRD, Govt. of India on 2nd May 2020.

**FDPs / WORKSHOPS / CONFERENCES ATTENDED**

1. One week (ATAL) Academy Faculty Development Program **on Quantum Computing: Fundamentals and Future Directions** at MITADT School of Computing Pune, from 06/01/2025 to 11/01/2025.
2. One week FDP on **Introduction to Foreign Language** ( German & Japenese) from 16th -20th Dec 2024, held at PCET’s , Pimpri Chinchwad University, Pune.
3. Five Days Face to Face **Faculty Development Program** on **UHV- II** from 16th- 20th Jan 2024 at PVG’s COE, Pune.
4. Five Days Face to Face **Faculty Development Program** on Data Anayltics Using Power BI from 8th- 12th Jan 2024 at AISSMS –IOT, Pune.
5. One Week National Level **FDP** on Cloud Infrastructure (AWS) from 21st- 25th Aug 2023 at DIT, Pimpri, Pune.
6. One Week Online **Faculty Development Program** on Machine Learning from 10th July 2023 to 14th July 2023 at DIT, Pimpri, Pune.
7. 3- Days Offline UHV- I Self Workshop- " **AICTE Incoporating Universal Human Values in Education**" from 3- 5th April 2022 at PVG's COET, Pune.
8. One week online **FDP** on "Recent Trends in Machine Learning", organized by Dept. of E&TC, AISSMS COE, Pune from 13th- 17th March 2023.
9. One Week Online **Faculty Development Program** on "**Industry 4.0 Technologies and Research Trends**", organized by Dept. of IT, SIT, Lonavala, Pune from 22th to 31th Dec. 2022.
10. One Week Online **Faculty Development Program** on "**Machine Learning**", organized by Dept. of IT, SIT, Lonavala, Pune from 7th to 11th Dec. 2022.
11. Attended **INDUSTRIAL VISIT** at Auto cluster Development and Research Institute, Pune Organised for SE students on 18th Nov 2022.
12. Attended **INDUSTRIAL VISIT** at Science Park, Pune Organised for SE students on 18th Nov 2022.
13. 8 weeks **NPTEL- AICTE FDP** on “Introduction to Machine Learning” on July- Sep 2022.
14. 4 weeks **NPTEL- AICTE FDP** on “Python for Data Science” on July- Sep 2022.
15. One Week Online Faculty Development Program on "**Machine Learning and Deep Learning with Python**", organized by MET Institute of computer science , Pune from 2nd Aug 2022 to 6thAug. 2022.
16. One Day Online FDP on “ Database Management System”, organized by MMIT, Lohgaon, Pune on 6th Aug 2022.
17. Attended **IMPACT LECTURE SERIES** PHASE II 2022 on topic “legal and ethical steps for planning startups”, organized by institution’s Innovation Council (IIC), AISSMS-COE on 22th July 2022.
18. **Attended Conference on “**Advances in Computing and Data Sciences (ICACDS- 2022), ORGANISED BY G. Pullah College of Engineering, Andra pradesh from 22-23th April 2022.
19. **ATAL FDP** on "**Data Science”,** organized by from 21th -25th Feb 2022
20. **ISTE Approved FDP** on “Project Based Learning (PBL)”, organized by AISSMS-COE from 21st- 26th Feb 2022.
21. **ATAL FDP** on "**Quantum Computing”,** organized by from 17th -21th Jan 2022.
22. Five Days **FDP** on “**Advanced Software Engineering & Project Management**”, Organised by DYPIET, Akurdi from 3rd- 7th Jan 2021.
23. **Workshop** on **“**NPTEL E-Awareness**” on 22nd Dec 2021.**
24. **National Level Webinar** on “Symbol of Knowledge- My Constitution My Pride”, organized by AISSMS-COE on 8th Dec 2021.
25. **Webinar** on “Higher Education Overseas Opportunities and Placement”, organized by AISSMS-COE on 1st Dec 2021.
26. **ATAL FDP** on "**Design Thinking: Aspirations for Innovations”,** organized by from 29th Nov- 3rd Dec 2021.
27. Five Days FDP on “**Software Based Case Studies for Development of Multidisciplinary Projects**”, Organised by AISSMS-COE from 22nd- 26th Nov 2021.
28. One Week Online Faculty Development Programme on "**Intellectual Property Rights”,** organized by K.S.R.M COE, Kadapa from 26th- 30th Oct 2021.
29. 3 Days **workshop** on "**Advanced Excel**", organized by Inspire Softech Solutions, Chennai, from 23rd -25th Oct 2021.
30. One week **STTP** on Network Security on 24/4/2020 – 1/5/2020, by NITTTR Kolkata.
31. One Week Online **Faculty Development Programme** on "**Effective Proposal Writing for Research and Funding”**, Organized by E&TC Dept., Sandip Institute of Technology, Nashik from 13th – 18th May 2020.
32. 6 Days Faculty Development Program on "**Python with Django**", organized by ATS Learning Solutions, from 25th – 30th June 2019.
33. Two days **State Level workshop** on 3rd and 4th Jan 2019 under QIP on "Big data Anlyatics and Machine Learning" at Pune.
34. Two days **Faculty development program** on “Research Methodology and Data Analytics” on 28th and 29th September 2018 at JSPM’s RSCOE- MBA Dept, Pune-33.
35. One Week **Faculty Development Programme** on "Data Sciences and Advanced Analytics using Statistica", by Mr. Sujeet Mishra and Ms.SucharitaBhur, Grid Analytics India Pvt. Ltd., organized by Computer Engineering Department at JSPM’s RSCOE Pune on 18th to 23rd December 2017.
36. **Five days National level faculty development program** on “Machine Learning using Python” during 4th Dec to 9th Dec 2017 at MAEER’S MIT College of Engineering, Pune.
37. **One Month Foundation Program in ICT** for Education, IIT Bombay, From 3rd Aug 2017 to 7th Sep 2017.
38. One day **workshop** on “A Foundation Program on Data Science using Statistica” on 24th August 2017 at JSPM’s RSCOE, Pune-33.
39. Attended One Week FDP on “ **Induction Training Program”** organized by JSPM, Wagholi, Pune in May 2017.
40. Attended IEEE Workshop on “How to publish a Technical paper with IEEE” in College of Engineering, Pune on 4th October 2016.
41. Attended One Week FDP on “**Teaching Methodology in Computer Engineering”** organized by RSCOE, Tathawade, Pune from30/11/15 to 5/12/15.
42. Attended One Week FDP on “**Teaching Methodology in Computer Engineering”** organized by RSCOE, Tathawade, Pune from 4/6/15 to 10/6/15.
43. Attended 12 Days FDP on “**Teaching Methodology in Computer Engineering”** organized by RSCOE, Tathawade, Pune from 1/12/14 to 13/12/14.
44. Attended two days Workshop on “**Research Direction In Data Analytics”** organized by Dr.D.Y.P.I.E.T, Pimpri on 18th& 19th September, 2010.
45. Attended Workshop on “**Web Services and Service Oriented Architecture (SOA)”** organized by AISSMS’s-IOIT, Pune.
46. Attended FDP on “Information Security” of 12 days from 1/12/14 to 13/12/14 at ICOER, Wagholi.
47. Attended FDP on “Microprocessor Architecture” of 8 days from 4/6/15 to 12/615 at RSCOE, Tathawade.

**WORKSHOPS / SEMINARS ORGANIZED**

1. **Seminar on “**HIGHERSTUDY OPPORTUNITIES**”** by SI-UK**,** on 12th Aug 2024at 10.00 am at DIT, Pimpri, Pune.
2. **Seminar** on "The Power of Yoga !!Women in Yoga" on 17th March 2023 at 11 am at AISSMS COE, Pune.
3. **Workshop on “Entrepreneurship Development Phases” on** 18th Oct 2022 at AISSMS COE, Pune.
4. **Teacher’s Day Celebration – “REJUVENATE WITH YOGA**” on 5th Sep 2022 at AISSMS COE- Pune.
5. Organized One **week National Level FDP** on Amazon Web Services (AWS) on 22nd- 27th Aug 2022 at AISSMS COE, Pune.
6. **Seminar on “**STUDY ABROAD OPPORTUNITIES IN UK**”** on 11th April 2022at 10.00 am at AISSMS COE, Pune.
7. On Occasion of **WOMEN’S DAY- “Break the Bias”** on 8th March 2022 at AISSMS COE, Pune.
8. Committee member of - Five Days FDP on “**Software Based Case Studies for Development of Multidisciplinary Projects**”, Organised by AISSMS-COE from 22nd- 26th Nov 2021.
9. Organized a **Webinar** on “Introduction to IPR” on 13th Oct 2021 at AISSMS-COE, Pune.
10. Organized an **International Conference** on Advance Trends in Computer Science and Information Technology (ICATCSIT – 2019) ON 15th- 16th March 2019, held at JSPM’s, RSCOE, Pune.

**TECHNICAL SKILLS & SUBJECTS TAUGHT**

**Core Subjects:**

* Programming and Problem Solving
* Data Science, Artificial Intelligence
* Cloud Computing, Theory of Computation
* Microprocessor Architecture
* Computer Graphics and Gaming
* Mobile Communication, Information Security

**PROFESSIONAL MEMBERSHIPS**

* ISTE (LM117925)
* Internet Society (ISOC)
* SDIWC

**RECOGNITION & AWARDS**

* “**Beauty with Brain**” – Mrs. Monarch Maharashtra 2021
* Winner – “**Fire It Back**”, AISSMS Wonder Diva, 2022

**LEADERSHIP & RESPONSIBILITIES**

* Higher Studies Coordinator, Cultural Club Coordinator
* Class Teacher, Time-Table Coordinator, ARC Duty
* Monthly Attendance & Activity Coordinator
* Higher Studies Coordinator
* Exam Committee Member
* Sankalp Literacy Club Incharge
* Faculty Publication Incharge

**PERSONAL DETAILS**

* **Date of Birth:** 12 May 1986
* **Marital Status:** Married
* **Nationality:** Indian
* **Languages Known:** English, Hindi, Marathi

**DECLARATION**

I hereby declare that the information provided is true to the best of my knowledge and belief.

**Date:**  
**Place:** Pune

**Signature:**  
**(Dudhmal Ritu S.)**