

MS. DIPALI YOGESH KOSHTI

Assistant Professor

Department of Computer Engineering

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OBJECTIVES:

Seeking opportunities to take up more research projects, consultancy projects and making use of the acquired knowledge for excelling in teaching and guiding students.

PROFESSIONAL EXPERIENCE:

Total Teaching Experience : 16 years

2005 –till Date Fr. Conceicao Rodrigues College of Engineering, Mumbai

Designation: 2008 -Till date : Assistant professor

(Selection Grade AGP -8000)

2005 – 2008 : Lecturer

Jan-2004 to July-2005: Vidyalkar Poly technique college, Wadala

Designation : Lecturer

June-2002 to Jan 2004 Babasaheb Gawde institute of Technology

Designation: Lecturer

EDUCATIONAL QUALIFICATIONS:

2008 – 2010

M.E (Computer Engineering) from TSEC, Mumbai University. (*First Class with Distinction*)

1996 – 2000

B.E (Computer Engineering) from M.S. University , Baroda. (First Class)

Additional Qualification:

CCNA Certified, Exam Series - 640-607 score 910/1000 (91%)

ADMINISTRATIVE RESPONSIBILITIES:

1. **Project coordinator** for the period 2010 to 2015 and 2020 onwards
2. **Examination coordinator** for the period 2016 To 2018
3. **Coordinator** of Cultural Festival – EUPHORIA in the year 2016-17, 2018-19, 2019-20
4. **Convener** of College Magazine - FRAGMAG Team in the year 2017-18
5. **Coordinator – Program Committee** - International Conference ICAC3'19, ICAC3'21
6. **Contact Co-chair** – International Conference ICAC3'17
7. **Coordinator – Purchase committee** in ICAC3'17
8. **Coordinated** one week STTP on “Internet of Things” from 27th June to 1st July 2016.

9. **Coordinated** Two day **FDP** on Perl and Python , 12-13 January 2018.
10. **Coordinated** Two day **FDP** on “Android Programming” on 30,31 August 2019.
11. Coordinated 1 week FDP on “ Disruptive Technologies of Industry 4.0”, from 30th May 2020 to 3rd June 2021.
12. **Coordinated Two Day FDP on :Linux Administration”, on 16th and 17th April, 2021.**
13. **Coordinated Two day FDP on Quantum Computing on 18th and 19th November 2022.**

RESEARCH GRANTS:

Mumbai University Granted projects under Minor Research Grant (MRG) scheme:

1. **Project Title:** Smart Green House using Internet of Things
Role: Principal investigator
Amount Granted: 25000/-
Year: 2016-17
Status: Completed
2. **Project Title:** Smart Children safety in school bus transport using RFID and Android
Role: Co-investigator
Amount Granted: 20000/-
Year: 2016-17
Status: Completed
3. **Project Title:** Smart Wearable for senior citizens using Internet of Things(IOT)
Role: Co-investigator
Amount Granted: 30000/-
Year: 2017-18
Status: Completed
4. **Project Title:** Smart Cradle for reducing the Risk of SIDS using IoT
Role: Principal Investigator
Amount Granted: 25000/-
Year : 2019-20
Status: Completed

Bennett University’s Deep Learning and AI initiative project:

CRCE has been selected as one of **the zonal lead partners** for the nation-wide initiative on AI skilling and research taken up by the Bennett University. I am one of the 5 faculties who is working on Research project “ Smart Agro Solutions”.

Project Title: Smart Agro Solutions

Duration: 2 Years (July 2018 To July 2020)

Status: Complete

PUBLICATIONS:

Publications in International/national level Journals/ Conferences:

1. D. Koshti, Ashutosh Gupta, and M.Kalla, "BERT based Hierarchical Alternating Co-Attention Visual Question Answering using Bottom-Up Features", *Int J Intell Syst Appl Eng*, vol. 10, no. 3s, pp. 158–168, Dec. 2022.
2. M. Dias, H. Aloj, N. Ninan and D. Koshti, "BERT based Multiple Parallel Co-attention Model for Visual Question Answering," *2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)*, 2022, pp. 1531-1537, doi: 10.1109/ICICCS53718.2022.9788253.
3. D. Koshti, S. Kamoji, K. Cheruthuruthy, S. P. Shahi and M. Mishra, "A Detection, Tracking and Alerting System for Covid-19 using Geo-Fencing and Machine Learning," *2021 5th International IEEE Conference on Intelligent Computing and Control Systems (ICICCS)*, 2021, pp. 1499-1506, doi: 10.1109/ICICCS51141.2021.9432254.
4. S. Kamoji, D. Koshti, V. V. Dmello, A. A. Kudel and N. R. Vaz, "Prediction of Parkinson's Disease using Machine Learning and Deep Transfer Learning from different Feature Sets," *2021 6th International IEEE Conference on Communication and Electronics Systems (ICCES)*, 2021, pp. 1715-1720, doi: 10.1109/ICCES51350.2021.9488944.
5. Supriya Kamoji, Dipali Koshti, Ruth Peter, "Analysis of Growth and Planning of Urbanization and correlates changes in Natural Resources", The **Springer and Scopus Indexed** International Conference on Innovative Data Communication Technologies and Application (ICIDCA) 2019, organized by RVS College of Engineering and Technology, October 17-18 2019 at Coimbatore, Tamil Nadu.
6. S. Kamoji, D. Koshti, J. Noronha, E. Arulraj and E. Clement, "Deep Learning-based Smart Street Lamps – A Solution to Urban Pollution," *2020 Second IEEE sponsored International Conference on Inventive Research in Computing Applications (ICIRCA)*, 2020, pp. 478-482, doi: 10.1109/ICIRCA48905.2020.9182980.
7. D. Koshti, S. Kamoji, N. Kalnad, S. Sreekumar and S. Bhujbal, "Video Anomaly Detection using Inflated 3D Convolution Network," *2020 IEEE International Conference on Inventive Computation Technologies (ICICT)*, 2020, pp. 729-733, doi: 10.1109/ICICT48043.2020.9112552.
8. S. Kamoji, D. Koshti, A. Dmonte, S. J. George and C. Sohan Pereira, "Image Processing based Vehicle Identification and Speed Measurement," *2020 IEEE International Conference on Inventive Computation Technologies (ICICT)*, 2020, pp. 523-527, doi: 10.1109/ICICT48043.2020.9112419.
9. Dipali Koshti, Scarlet Lopes, "Prediction of tourism flow in India Using LSTM Model", *JETIR*, Volume 5, Issue5, May 2019. DOI: <http://doi.one/10.1729/Journal.20564>, ISSN: 2349-5162.
10. Ashish B. Nair, Ishita M. Raut, Sangeeta Joseph, **Prof. Dipali Koshti**, "Content Retrieval and Protection of Smart Phone through Remote Access", *International Journal of Engineering and Technical Research*, ISSN: 2321-0869, Volume-3, Issue-4, April 2015.
11. Saurabh V. Joshi, Ajinkya A. Bokil, Nikhil A. Jain, **Dipali Koshti**, "Image Steganography : Combination of Spatial and Frequency Domain", *International Journal of Computer Application(IJCA)*, November 20, 2012, Volume 53 - Number [d.o.i-10.5120/8419-1319]
12. Dr. H. B. Kekre, Archana B. Patankar and **Dipali Koshti**, "Performance Comparison of Simple Orthogonal Transforms and Wavelet Transforms for Image Steganography. *International Journal of Computer Applications*, 44(6):21-28, April 2012. [d.o.i - 10.5120/6267-8422]
13. Ms. SupriyaKamoji and **Ms. Dipali Koshti**, "Study of Cache Management Algorithms", *International Journal of Computer Science and Technology (IJCST)*, Vol. 2, Issue 4, Oct . - Dec. 2011. [ISSN 0976-8491 (online) | ISSN2229-4333(print)]
14. **Ms. Dipali Koshti** and Ms. SupriyaKamoji, "Comparative study of Techniques used for Detection of Selfish Nodes in Mobile Adhoc Networks", *International Journal of Soft Computing and Engineering (IJSCE)* ISSN: 2231-2307, Volume-1, Issue-4, Sep 2011.

15. Dr. H. B. Kekre, Archana Athawale & **Dipali Sadavarti**, “Algorithm to Generate Wavelet Transform from an Orthogonal Transform”, International Journal of Image Processing (IJIP) ,Vol. 4, Issue 4, pp : 444 - 455, October-2010.
16. Dr. H.B. Kekre, ArchanaAthawale and **Dipali Sadavarti** , “ Algorithm to Generarte Kekre’s Wavelet Transform from Kekre’s Transform “, International Journal of Engineering Science and Technology (IJEST) Vol. 2 (4), June 2010, pp: 756-767.ISSN 097.

BOOKS AUTHORED:

S.N.	Title of the Book	Publisher	ISSN/ISBN No.	Year of Publications
1	Artificial Intelligence and Data Science - II	TECHNOWLEDGE Publication, Pune	978-9355-63-061-2	August 2022
2	Entrepreneurship and E-Business for Mumbai University (Information Tech)	TECHNOWLEDGE Publication, Pune		2021
3	Mobile Communication and Computing (Third Year Computer Engineering)	TECHNOWLEDGE Publication, Pune	ISBN: 978-93-89424-89+36-2	July 2019
4	Artificial Intelligence And Soft Computing for Compute Engineering	TECHNOWLEDGE Publication , Pune	ISBN: 978-93-89424-35-5	July 2019
5	Neural Network and Fuzzy Logic for Electronic Engineering	TECHNOWLEDGE Publication , Pune	ISBN: 978-93-89503-34-0	October -2019
6	Soft Computing and Optimization Algorithms (Savitribai Phule Pune University)	Tech-Max Publication, Pune	ISBN: 978-93-88723-64-0	February 2019
7	Soft Computing, (B.E. IT)	Tech-Max Publication, Pune	ISBN: 978-93-5224-219-1	March 2016
8	Mobile Communication and Computing (Third Year Computer Engineering)	Tech-Max Publication, Pune	ISBN: 978-93-5077-035-1	January 2016
9	Soft Computing, (B.E. Computer)	Tech-Max Publication, Pune	ISBN: 978-93-5077-452-6	October 2015

CERTIFICATION COURSES

1. 4 Week NPTEL Certification Course on “Neural Network and deep Learning”, Aug 2020
2. 4 Week NPTEL Certification Course on “Data Science using python”, Aug 2020
3. 4 Week NPTEL Certification Course on “Improving Deep Neural Networks: Hyper parameter Tuning, Regularization and Optimization”, September 2020.
4. 2 Week NPTEL Certification Course on “Structuring MACHine Learning Projects”, September 2020.
5. 4 week NPTEL Certification Course on “Convolution Neural Networks”, May 2020
6. 8 Week NPTEL Certification Course on “Cloud Computing”, Oct 2019 (Score 80%)
7. 12 week NPTEL Certification course on “Social Networking”, Oct 2018 (Score 72%)
8. 8 week NPTEL Certification course on “Machine Learning”, Oct 2018 (Score 64%)
9. 8 Weeks NPTEL Certification course on “Introduction to Human Computer Interaction”, APRIL 2018 (Score 75%)
10. 12 weeks NPTEL Certification course on “Introduction to IoT”, APRIL 2018 (Score 75%)

TRAINING COURSES ATTENDED:

ISTE APPROVED STTP:

Sr. No	Name of course/Summer School/winter school	Place	Duration
1	one week STTP on Geographic Information System (GIS)	K.J. Somaiya College of Engineering, Mumbai, Maharashtra	1 week (19-07-2021 to 23-07-2021)
2	One week FDP (ATAL) on "Computer Vision: Past, Present and Future"	SCTR's Pune Institute of Computer Technology sponsored By AICTE	1 week (06/12/2021 to 10/12/2021)
3	One week FDP (ATAL) on "Artificial Intelligence and Machine Learning For Health care"	College of Engineering (COE) Pune	1 week 13/12/2021 to 17/12/2021
4	AICTE Sponsored Online Short Term Training Program (STTP) on "Entrepreneurship and Innovation as Career Opportunity"	National Institute of Technology, Nagaland	1 week (22-03-2021 to 26-03-2021)
5	One week AICTE-ISTE approved Orientation / Refresher online programme on “Improving Excellence In Teaching” programme on “Improving Excellence In Teaching”	ABMSP’s Anantrao Pawar College of Engineering & Research, Parvati, Pune, Maharashtra.	1 week (24th -30th April 2021)
6	AICTE sponsored 1 week STTP on BLOCKCHAIN & IT’S APPLICATIONS (Phase I)	Vivekananda Education Society's Institute of Technology	1 week (26th April to 1st May 2021)

7	AICTE sponsored One week STTP on Deep Learning Tools & Applications in Engineering & Science sponsored by AICTE (Phase-I)	MIT Engineering Academy, School of Computer Engineering and Technology, MIT Academy of Engineering, Alandi - Pune	1 week (10th May to to 15th May 2021)
8	AICTE Sponsored One week STTP on Deep Learning Applications using IoT for Engineering & Science sponsored by AICTE (Phase-II)	MIT Engineering Academy, School of Computer Engineering and Technology, MIT Academy of Engineering, Alandi - Pune	1 week (24th May to 29th May 2021)
9	Workshop on "Advanced Deep Learning"	FR.CRCE, Organized in collaboration with Bennett University, Greater Noida	1 week (2nd Dec to 6th Dec 2019)
10	Workshop on "Arduino"	Jai Hind College of Engineering, Pune	1 week (19th May to 24th May 2020)
11	Workshop on "Research Funding Projects and IPR"	K. C. College of Engineering & Management Studies & Research, Thane (E)	4 days (7th May to 10th May 2020)
12	Workshop on "Security Issues and Role of Cryptography in Communication"	Xavier Institute of Technology, Mahim, Mumbai	1 week (22 June to 26 June)
13	Workshop on "Experimental Design and Optimization of Research in Machine Learning"	SNDT Women's University, Mumbai	6 Days (1 to 12th June 2020) Alternate days
14	ISTE approved STTP on "Pedagogy for Effective Integration of ICT in Engineering Education"	Shah & Anchor Kutchhi College of Engineering, Chembur	1 week (3rd May To 8th May 2018)
15	ISTE approved STTP on "Bio Informatics: Emerging Research and Applications"	KJS, VidyaVihar, Mumbai	1 week (27-Jun-2017 To 3-July 2017)
16	ISTE approved STTP on Digital Forensic"	FR. CRCE., Bandra, Mumbai	1 Week (11-Nov-2014 To 15-Nov-2014)
17	ISTE approved 1 week STTP on "3G Technology".	NMIMS, VileParle from.	1 week (10-5-2011 to 14-5-2011)
18	ISTE approved 2 week STTP on "Advanced Parallel Computing" organized by	D.J. Sanghvi college of engineering, Vileparle	2 weeks (7th-18th Jan,2008)
19	ISTE approved 2 week STTP on "UML 2"	FrCRCE, Bandra	18th - 29th June, 2006

INDUSTRIAL TRAININGS:

Sr. No	Name of course/Summer School/winter school	Place	Duration
1	Industrial training on “ Practical Implementation of Agile methodologies”	SWQA SOLUTIONS ,Vile Parle, Mumbai	4 weeks (01-Jun-2014 To 27-Jun-2014)
2	Training on “ Android Development “	MIKADO SOLUTIONS., Thane (west)	2 weeks (9-Dec-2013 To 22-Dec-2013)

FDP/Workshops attended:

1. Two day FDP on “Quantum Computing” organized by ECS department of CRCE on 18th and 19th November 2022.
2. Three day FDP on “ Research funding and IPR” organized by from 7th June to 9th June 2021
3. One day workshop on “Cyber Attacks and its Mitigation” organized by on 24th April 2021.
4. **Five** Day workshop on “Advanced Deep Learning” organized by FR CRCE in association with Leadingindia.ai and Industry partners NVIDIA from 02-12-2019 to 06-12-2019.
5. Two day Faculty Development Program on “Machine Learning “ organized by FrCRCE on 28th Feb and 22nd March 2019.
6. One Day workshop on “Transfer Learning” held during the International Conference on efficiency of Software Tools for Mathematical Modeling (ICESTMM 2019) at Thadomal Shahani Engineering College on 20th April 2019.
7. Three day workshop on "AI and Deep learning" organized by CRCE in association with Bennett university and NVIDIA on 21 to 23 July 2018.
8. Faculty Development program on "Stress Management And Yoga for Healthy Life" organized by Department of Computer Engineering and Information Technology, CRCE, Bandra on 3rd and 4th February 2017.
9. Two day Faculty Development program on "R Programming" organized by Department of Computer Engineering and Information Technology, CRCE, on 5th,6th August 2016.
10. One day workshop on "Research Topics in Computer Science and Information Technology" on 31st August 2013, organized by department of Computer Engineering, Fr.C.R.C.E, Bandra.
11. 3 Day workshop on "Sturts 2.0 web Application Framework" organized by Computer Engineering dept. of Fr. C.R.C.E. Bandra from 17th March to 19th March 2012.

AREA OF INTEREST:

1. Mobile Computing
2. Soft Computing
3. Computer Networks
4. Human Computer Interaction
5. Machine Learning
6. Deep Learning

INTERACTION WITH OUTSIDE WORLD:

- Reviewer for ICCICT -2021 organized by Sardar Patel Institute of Technology.
- Reviewer for International Conference on Technologies for Sustainable Development (ICTSD), 2015.
- Sub Reviewer for ICCUBEA 2015.
- Resource person for expert lecture on “IP addressing and Subnetting” on 19th October 2019, in K.J. Somaiya Polytechnic, VidyaVihar.
- Resource person for FDP on “Machine Learning” in Shah and Anchor Kutchhi college of Engg, organized on 2nd and 16th march, 2019.
- Resource person for expert lecture on “Neural Networks” at Vidyavardhini’s College of Engineering and Technology, Vasai for final year I.T. students on 19th September, 2016.

UNIVERSITY APPROVAL: UG – CONCOL/SA/4155/2009