



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
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Department of Artificial Intelligence and Machine Learning

Profile

Prof. Dr. Deepali M Ujalambkar

M.E(CN). PhD (CSE)

Head, Department of Artificial Intelligence and Machine Learning

Assistant Professor

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BOS Member, Computer Engineering, SPPU

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Research Areas / Areas of Interest

Artificial Intelligence, Data Mining, Machine Learning, Computer Networks, Optical Networks.

Personal Details

Date of Birth: 17 / 08 / 1980

Domicile: Maharashtra

Gender: Female

Blood Group: AB-ve

Contact Details: E2-Flat No 703, Madhuban Housing Society, Kalas Road,
Vishrantwadi, Pune –411015

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Computer Science &	SRTMU,	--	Sept 2021

		Engineering	Nanded		
2	M.E.	Computer Networks	Pune	Ist	May 2012
3	B.E.	Computer Science & Engineering	Shivaji ,Kolhapur	Ist	May 2002

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	22	00
2	Research	00	00
3	Industry	1	8
4.	Others	--	--
Total		22	8

Subjects / Courses Taught

S. No.	Subject	UG/P G	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1.	Foundation of Artificial Intelligence	UG	SE	1
2.	Database Management System	UG	SE	1
3.	Fundamentals of Programming Languages I & II	UG	FE (Mechanical)	2
4.	Advanced Databases	UG	BE (Computer)	04
5.	Multimedia Techniques	UG	BE (Computer)	04
6.	Data Base Management Systems	UG	TE (Computer)	03

7.	Operating System and administration	UG	BE (Computer)	02
8.	Data Mining and Warehousing	UG	BE (Computer)	03
9.	Soft Computing and Optimization Algorithms	UG	BE (Computer)	02
10.	Data Mining	PG	ME-I (Computer)	02
11.	Information Retrieval	PG	ME-I (Computer)	02
12.	Scalable Data Science	PG	ME-II(AIDS)	01
13.	Cloud Computing	PG	ME-I (Computer)	02

Research Publications

	National	International	SCI/Scopus	UGC Approved
Journals	00	25	15	10
Conferences	01	04	03	--

Publication Details

Sr. No	Document Details	Authors	Year	Source Details	ISBN/ISSN
1.	Enriching Feature Extraction for Cricket Video Event Detection	Deepali Bhawarathi and Prof Shrinivas Gadage	2012	International Journal of Engineering Research & Technology (IJERT)	, ISSN: 2278-0181

2	Enriching Feature Extraction Using A priory Algorithm forCricket Video	Deepali Bhawarathi and Prof Shriniwas Gadage	2012	International Journal of Engineering Research and Applications (IJERA)	ISSN: 2248-9622
3	A Handoff Technique for Wireless Heterogeneous Networks”, , Vol. 5, Issue 4,	Deepali Ujalambkar and et al	2013	International Journal of Innovative Research and Studies	ISSN 2319-9725
4	Insight on Big Data: Scaling Paradigm	Deepali Ujalambkar	July 2015.	International Journal of Advanced Researchin Computer Science and Software Engineering	ISSN: 2277 128X
5	Big Data Mining Analysis Based on Opinion Classification Techniques: A survey	Deepali Ujalambkar	July2016	International Journal of Advanced Research in Computer Science and Software Engineering	ISSN: 2277 128X
6	Secured Aadhar Based ElectronicVoting System	Deepali Ujalambkar	December 2017.	International Journal for Research in Applied Science & Engineering Technology	ISSN: 2321-9653
7	Graphical Authentication forWeb Based Application	Deepali Ujalambkar et al	December 2017	International Journal of Advance	ISSN: 2454-132X

				Research, Ideas and Innovations in Technology	
8	Door Lock System using Facial Recognition	Deepali Ujalambkar et al	2018	International Journal for Research in Applied Science & Engineering Technology	2321-9653
9	Artificial Intelligence for Music Composition	Deepali Ujalambkar et al	2019	INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS	2348-1269
10	Survey on Plant Pathology Disease Prediction	Deepali Ujalambkar	November 2019	International Journal of Advanced Research in Computer Science and Software Engineering	ISSN: 2277 128X
11	A survey on detection of brain tumor using computer vision and machine learning technique.	Deepali Ujalambkar et al	March 2021	International Journal of Applied Research	2394-7500,
12	A Survey on Detection of Phishing Websites using Machine Learning	Deepali Ujalambkar et al	March 2021	International Journal of Advance Research and Innovative Ideas in Education	2395-4396
13	Detection of brain tumor using CNN and ML	Deepali Ujalambkar et al	March 2021	International Journal of Applied Research	2394-5869

14	Allocation of channels over optical burst switching (OBS) networks in smart cities using integrated statistical techniques”.	Deepali Ujalambkar et al.,	March 2022	International Journal of System Assurance Engineering and Management	10.1007/s13198-021-01435-x.
15	Traffic prediction in optical burst switched networks using deep learning	Deepali Ujalambkar et al.,	Dec 2021	International Journal of Research and Analytical Review	2348 - 1269
16	Node Behavior Classification for Traffic Prediction in Optical Burst Switched Networks using Machine Learning	Deepali Ujalambkar et al.	February 2020	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2278 - 3075
17	Classification and Prediction of traffic in Optical Burst Switched Networks using Machine Learning Vol.	Deepali Ujalambkar et al.,	February 2020	International Journal of Future Generation Communication and Networking	2233 - 7857
18	Social Distancing and Face Mask Detection using Yolov4 and CNN	Deepali Ujalambkar et al.,	March -2022.	International Journal of All Research Education and Scientific Methods (IJARESM),	2455 - 6211
19	Pneumonia Detection using VGG19 on Chest X-ray Images	Deepali Ujalambkar et al.,	March -2022.	International Journal of All Research Education and Scientific Methods (IJARESM),	2455 - 6211
20	Cloud Data: Encryption and Auditing by A Third Party	Deepali Ujalambkar et.al.	2022	Journal Of Harbin Institute of Technology	0367 - 6234
21	Restaurant Reviews: Aspect-Based Sentiment Analysis Using Deep Learning and NLP Algorithm	Deepali Ujalambkar et.al	2022	Journal Of Harbin Institute of Technology	0367 - 6234
22	Evaluating And Classifying Human Posture: A Review	Deepali Ujalambkar et.al	2022	Journal of Pharmaceutical Negative Results	0976 - 9234

23	Ship Detection at Small Ports using CNN	Deepali Ujalambkar et.al	2023	The Indian Society for Technical Education (ISTE)	0971-3034
24	Digitalization of Doctor's Handwritten Prescription using Optical Character Recognition (OCR)	Deepali Ujalambkar, Adarsh Bhosale, Chaitnaya Kulkarni, Dipti Shegar, Aditya Tandulwadkar, Purva Wagh	July 2023	The Indian Society for Technical Education (ISTE)	0971-3034
25	Prediction of Compressive Strength of High Strength Concrete using Artificial Intelligence and Machine Learning Techniques	Dr. Vidya Nitin Patil, Dr. Deepali Milind Ujalambkar, Dr. Ganesh C. Chikute , Prajwal Gaikwad , Pankaj R. Modak , Dr. Vivek S Chavhan	OCT, 2023	MATERIAL SCIENCE AND TECHNOLOGY	1005-0299
26	Real-Time Dimension Detection using Customized Canny Edge Detection Algorithm	Deepali Ujalambkar et.al	2023	International Journal of Engineering Trends and Technology	231–5381
27	Ensemble learning based Defect Detection Systems for Industrial Applications	Deepali Ujalambkar et.al	2024	Advances in Nonlinear Variational Inequalities	1092 - 910X
28	Industrial Product Surface Defect Detection Using CNN: A Deep Learning Approach	Deepali Ujalambkar et.al	2024	Panamerican Mathematical Journal	1064 - 9735
29	FoodX: An AI-Powered System for Packaged Food Ingredient Analysis and Personalized Health Recommendations	Deepali Ujalambkar et.al	Volume 13 Issue V May 2025	International Journal for Research in Applied Science & Engineering Technology	2321 - 9653
30	Crowd Density Mapping and Anomaly Detection using YOLOv8 and DEEPSORT	Deepali Ujalambkar et.al	Volume: 09 Issue: 06 2025	International Journal of Scientific Research in Engineering and Management	2582-3930
31	Automated Detection of Lower-Grade Gliomas Using Deep Learning	Deepali Ujalambkar et.al	10(33s) 2025	Journal of Information Systems Engineering and Management	2468-4376

	with UNet and EfficientNet-B7				
32	Ai-Powered Robotic Fabrication of Sculptures Using Multi-Material 3d Printing	Deepali Ujalambkar et.al	2025	Special Issue on Algorithmic Aesthetics and Artificial Intelligence in Visual Arts, Cultural Education, And Creative Practice	2582-7472

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	Enriching Feature Extraction for Cricket Video Event Detection.	Deepali Bhawarshi and Prof Shriniwas Gadage,	2013	NC'NACT-2012,	978-81-920427-1-8	Indira College of Engineering and Management, Pune
2	Congestion Control in Optical Burst Switching Networks Using Differential Evolution Optimization	Deepali Ujalambkar et al	2019	Intelligent Computing and Communication Proceedings of 3rd ICICC 2019,		Springer
3	Congestion Aware Routing in Optical Burst Switched Network Using Spider Monkey Optimization.	Deepali Ujalambkar et al	2020	International Conference on Computational Performance Evaluation (ComPE), North-Eastern Hill University, Shillong, Meghalaya, India	978-1-7281-6644-5	IEEE
4	Performance Evaluation of Spider Monkey Optimization for congestion control in Optical Burst Switched Network	Deepali Ujalambkar et al,	2020	International Conference for Emerging Technology (INCET)	978-1-7281-6221-8/20	IEEE

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
IAENG	Inter National	Life	245619
ISTE	National	Life	LM122576
SESI	National	Life	LM/2529/2021

Patents / IPR Filed / Granted/Copyrite

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	Dr Deepali Ujalambkar	Deep Learning Based Approach to Identify the Pros and Cons of Make in India Campaign on Indian Economy	2022	Published	The Patent Office Journal No. 42/2022 Dated 21/10/2022
2	Dr Deepali Ujalambkar	Intelligent Management System for Electricity Power Settlement of Electric Energy Power Station Using Block chain & Machine Learning.	2022	Granted	South Africa Patent No. 2022/11105
3	Dr Deepali Ujalambkar	Integration between IoT and Block chain	2022	Published	The Patent Office Journal No 202221077654, dated: 31/12/2022
4	Dr Deepali Ujalambkar	Information About The Detection Of Harmful Ingredients In Packaged Foods	12/08/2025	Published	15035/2025-CO/L

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
1	Congestion control schemes in optical burst switched networks	Namya Press	9789355451743
2	Soft Computing	Nirali Publication	
3	AI and ML in water Supply Distribution System	Kalam Kraft Publication	789358- 504774

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.	Research Proposal			

Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
1	Digital Transformation	STTP	3 days	National	AISSMSCOE
2	Making Right Choice	Webinar	2hrs	National	AISSMSCOE
3	Financial Nirvana	Webinar	2hrs	National	AISSMSCOE
4	Entrepreneurship as a career choice	Webinar	2hrs	National	AISSMSCOE
5	Cloud Automation	Webinar	2hrs	National	AISSMSCOE

Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Swift programming language of Technology	FDP	12-16 May 2020	MET's Bhujbal Knowledge City, Nashik	National Mission on Education through ICT, MHRD, Gov of India

2	Linux,	FDP	25th May - 29th May 2020	PVG	National Mission on Education through ICT, MHRD, Gov of India
3	PHP and MySQL	FDP	8 th May to 13th May 2020	VIT Nashik	National Mission on Education through ICT, MHRD, Gov of India
4	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE
5	Programming for Everybody	Online Course	1 May - 20th May 2020	Coursera	University of Michigan
6	Emerging trends in Industry 4.0	FDP	18 th - 29 May 2020	JSPM	JSPM
7	Matlab based teaching-Learning in Mathematics science and Engineering	STTP	18 th may 2020 to 22 may 2020	Ramrao Adik Institute of Technology, Nerul, Navi Mumba	Ramrao Adik Institute of Technology, Nerul, Navi Mumba
8	Opportunities and Challenges in industry 4.0	Technical Symposium	15 th - 17 th June 2020	MIT, Aurangabad	MIT, Aurangabad
9	Modern Technologies and self-Development	FSDP	8 th - 10 th June 2020	Computer Engineering Department, AISSMS COE	AISSMS COE
10	IOT and its Applications in Industry	STTP	8 th - 10 th June 2020	RAIT, Navi Mumbai	RAIT, Navi Mumbai
11	Research Methodology: Tools and Techniques	Refresher course	23 rd - 28 th November 2020	DNR College of Engineering, Technology, Bhimavaram, Andhra Pradesh	AICTE-ISTE
12	Information Security and Digital Forensics	STTP	14 th - 19 th December 2020	Army Institute of Technology, Pune	AICTE

13	SciLab: An Effective Open-Source Tool for Computer Vision and Machine Learning	STTP	2 nd -7 th November 2020	Vidya Jyothi Institute of Technology, Hyderabad	AICTE
14	Artificial Intelligence	Refresher program	19 th -24 th October 2020	D Y Patil, COE, Akurdi, Pune	AICTE
15	Data Sciences	FDP	5 th – 9 th October	University College of Engineering(A).	AICTE
16	Internet of Things	FDP	1 st -5 th February 2021	Knowledge Institute Technology.	AICTE
17	Industrial Application of MATLAB	Refresher	11 th -17 th February 2021	Institute of Management and Technology, Damoh, Madhya Pradesh	AICTE
18	Scope of IOT and its applications in automotive and agriculture Industry	Refresher	22 nd -27 th February 2021	Govt college of Engineering and research, Awasari, Pune	AICTE
19	Predictive Analysis using artificial intelligence	STTP	4 th -9 th January 2021	NRI Institute of Technology, Hyderabad	AICTE
20	Computer Science & Biology	FDP	25 th -29 January 2021	Kakatiya Institute of Technology And science.	AICTE
21	Leading to self Excellence	ATAL FDP	15 th -19 th October 2021	IIIT Delhi	AICTE
22	Enabling Entrepreneurship and startup mind set	AICTE FDP	16 th – 20 th August 2021	SGGS, Nanded	AICTE
23	Design Thinking: Aspirations for innovations	AICTE FDP	29 th November – 3 rd December 2021	AISSMS COE Pune	AICTE
24	3D Interaction design using AR-VR	Refresher course	23 rd -29 th December 2021	VPCCOE, Pune	AICTE
25	Big data computing	FDP	8 weeks	NPTEL	AICTE
26	STATISTICS	Faculty Orientation Program	17 February 2022	Department of Computer Engineering, IOE, BKC, Adgaon, Nashik	SPPU
27	Internet of Things	Faculty Orientation	22 February 2022.	Department of AI-DS, K. K. Wagh	SPPU

		Program		Engineering Education and Research, Nashik,	
28	Data Science & Big Data Analytics	FDP	08th February 2022	Department of Computer Engineering, I2IT	SPPU
29	Data Science and its applications	Orientation/ Refresher	30 th Dec 2021 -5 th January 2022	Abha Gaikwad-Patil Engineering, Nagpur	AICTE
30	Data Mining	NPTEL FDP	Feb-April 2022	IIT Madras	AICTE
31	Amazon Web Services	FDP	22 nd -27 th August 2022	Department of computer engineering, aissms of engineering, pur collaboration with brainovision solutions pvt.ltd & all india council for technical education	AICTE
32	Machine learning and Deep learning using Python	FDP	2 nd -6 th August 2022	MET institute of computer science	MET institute of computer science
33	Recent trends in Computations	FDP	18 th -23 rd July 2022	VIT, Pune	VIT, Pune
34	AWS Academy Solutions Architect	Educator Training Certificate	17/08/2022	EDUSKILLS	
35	Laboratory Practice-IV	One Day Online Faculty Program	3rd August 2022.	MMIT	SPPU
36	Amazon Web Services	FDP	22nd August 2022 to 27th August 2022	BRAINOVISION SOLUTIONS INDIA PVT.LTD & ALL INDIA COUNCIL FOR TECHNICAL EDUCATION - AICTE	BRAINOVISION SOLUTIONS INDIA PVT.LTD & ALL INDIA COUNCIL FOR TECHNICAL EDUCATION – AICTE
37	Data Science using Machine Learning	FDP	2nd January 2023 to 6th January 2023	Pravara Rural Engineering College	ExcelR
38	Blockchain Technology and Its Use Cases	FDP	20th March, 2023 to 25th March, 2023	Marathwada Mitra Mandal's College of Engineering, Karvenagar, Pune	The Institution of Engineers (India)
39	RECENT TRENDS IN AI TOOLS	STTP	24/07/2023 to 28/07/2023	D Y Patil College of Engineering, Akurdi	D Y Patil College of Engineering

40	Building Advanced Analytic Applications with Cloud	FDP	29/01/2024 02/02/2024	EDUNET	AICTE
41	Bridging Academia and Industry: Exploring Innovations in Latest Trends and Technology		10/7/2024 to 22/7/2024	Amity School of Engineering and Technology	Amity School of Engineering and Technology

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Cultural In charge (2016-17,17-18,18-19)
2	Student Counselling Cell In charge (2012-2016)
3	PG Co-Ordinator
4	Women's Grievance cell member
5	Gymkhana Member (Sports and Cultural)
6	Autonomy cell member
7	ISO Committee cell member
8	Competitive examinations cell member
9	Department NAAC Coordinator
10	Head of Department

NPTEL Courses:

- 1) Database Management Systems (8 Weeks)
- 2) Introduction to soft computing (8 weeks)
- 3) Big Data computing (8 Weeks)
- 4) Social Networks (12 Weeks)
- 5) Introduction to Machine Learning (8 Weeks)
- 6) Educational Leadership (8 Weeks)
- 7) Data Mining (8 Weeks)
- 8) Yoga and Positive Psychology for Managing Career and Life (8 weeks)
- 9) Roadmap for Patent Creation (8 Weeks)

Coursera certification:

- 1) Programming for Everybody (Getting Started with Python)
- 2) AWS Fundamentals: Going Cloud-Native
- 3) Successful Negotiation: Essential Strategies and Skills.

Awards:

1) Savitribai Phule Excellence award for Best Researcher.

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Dr Deepali Milind Ujalambkar