Somaiya Vidyavihar University

Name: Dr. Nandana Anantha Prabhu	**E-mail:** nandanaprabhu@somaiya.edu

Contact No: 022 66449416 (O) +91 9892286047 (M)
Department/Section: Information Technology
College: K J Somaiya College of Engineering

DOJ Somaiya: 15/07/2004	Career Experience:30Yrs	Industry Experience: NA	Teaching Experience:30Yrs

Present Academic Designation: Associate Professor	Present Administrative Designation:-- IQAC Coordinator, KJSCE Secretary, WDC_SVU QM Task force - LOCF coordinator, KJSCE

Area of research/specialization and Courses Delivered

Research domain/interests/areas
1. Biomedical Image Processing
2. Geographical Information Systems
3. Data Communication and Networking
4. Machine Learning
5. Artificial Intelligence
6. Business Analytics
7. Modeling and Simulation

Courses Delivered
1. Image Processing
2. Geographical Information systems
3. Digital logic design and Applications
4. Data Communication and Networking
5. Numerical Methods
6. Business Analytics
7. Modeling and Simulation
8. Computer Graphics
9. Neural Networks and Fuzzy Logic

Recognition as a teacher by any University	UG: Yes	PG: Y e s	Ph.D : No

Details of Recognitions
1. UG Information Technology Mumbai University
2. MTech (COMP)Mumbai University
3. MTech Information Technology (IS) Mumbai University

Education

Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Electronics Engineering	Mumbai	Fr. Conceicao Rodrigues College of Engineering, Mumbai University	2022	10
PG	Electronics Engineering	Mumbai	Veermata Jijabai Technological Institute, Matunga Mumbai University	2000	73.4%
UG	Electronics and Telecommunication	Karnatak	B V Bhoomareddi College of Engineering, Hubli	1988	70%

Notable Experience Details

Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	K J Somaiya College of Engineering	Associate Professor	17/05/2022	Till date	2yr 5months

2	K J Somaiya College of Engineering	Assistant Professor	0 1/02/2021	17/05/2022	1yr 4months
3.	K J Somaiya College of Engineering	Associate Professor	01/04/2010	01/02/2021	10yr 10months
4.	K J Somaiya College of Engineering	Assistant Professor	15/07/2004	31/03/2010	5yrs 8months
5.	A. C Patil College of Engineering	Assistant Professor	01/01/2002	11/07/2004	2yrs 6months
6	A. C Patil College of Engineering	Lecturer Professor	11/07/1993	31/12/2001	8yrs 5months

Research Accomplishments and Projects			
Publications Total: 28	Number of Peer review Journal papers: 15	Number of Conference papers:11	Number of book chapters:02

Details of Publications:

International Journals

1. Arya Karambelkar, Param Mamania, Niti Shah, "Automatic Text extraction from images using Optical Recognition System" Seventh International Joint Colloquiums on Computer, Electronics Electrical Mechanical and Civil CEMC2022,jointly organized by ACEECom, AMAE and ACEE-sub divisions of IDES, Oct 29-30,2022 published in Grenze International Journal of Engineering and Technology 2023 Volume 9, Issue 1,Pgs 270-275, 01.GIJET.9.1.522_2, 2395-5295(Online) 2395-5287(Print)

2. N. Prabhu, D. Bhoir, N. Shanbhag, "Diabetic Retinopathy Screening using Machine Learning for Hierarchical Classification", International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075,Volume 8, Issue 10, pp. 1943-1948, August 2019. DOI:10.35940/ijitee.J /9277.0881019

3. N. Prabhu, D. Bhoir, U. Rao, "Effectiveness of Machine Learning Techniques for Macula Edema Detection", International Journal of Computer Applications(0975-8887), Volume.182, no. 49, pp. 61-64, April 2019

4. Fuzail Sheikh, Ankit Dhame, Siyara Mascarenhas, Viral Paramar, Nandana Prabhu, "STUART- The Student Assistant in Real Time," International Journal of advances in Computational Sciences and technology ISSN 0973-6107, Volume 11, No. 1, pp. 61-64,April 7, 2018

5. Nandana Prabhu, Deepak V. Bhoir, Uma Rao, "Evaluation of Blood vessel Extraction Techniques in retinal Images", International Journal of Pure and Applied Mathematics, Special Issue, Vol 118, No 7, 2018, 151-158, Feb 2018

6. Kinjal Thakkar, Anuja Jambhale, Mitul Shah, Dhaval Maru, Nandana Prabhu, Shewtha Chachra,"Android based visitor Authentication System for Corporates", International Journal of Innovative Research in Computer and Communication Engineering, March 2017.

7. Ruda Khare, Nandana Prabhu, "Security Suite for IT and Telecom Industries", IOSR journal of Computer Engineering, ISSN:2278-0661,Vol 18,Issue 4, (July-Aug) 2016,pp 01-05

8. Nandana Prabhu, Aditya Somaiya, Dhvani Shah, Poonam Yadav, Janvi Rajani, "Career Solutions @Android Application" International Journal of Computer Applications(0975-8887), Vol 139,No 13,April 2016

9. Gayatri Dudhat, Akshita Vaidya, Prof. Nandana Prabhu, " Transforms for Diabetic Detection",International Journal of Advance Foundation and Research in Computer (IJAFRC) Peer Reviewed And Quality Article Monthly Journal , ISSN 2348 – 4853,Volume 2, Issue 5, May - 2015 , Pages : 43-48

10. Pooja Shivratri1*, Preeti Kshirsagar2, Rashmi Mishra3 Ronit Damania4 and Nandana Prabhu, "Resume Parsing and Standardization", IJCSE, Volume 3, Issue 3,E-ISSN :2347-2693, March 2015, Page No. 129-131

11. Gurudatta V Nayak , Anuja A Rao, Nandana Prabhu," K-Means Clustering Algorithm with Color-based Thresholding for Satellite Images", International Journal of Computer Applications (0975 – 8887) Volume 105 – No. 11, November 2014

12. Manasi Shah, Nandana Prabhu, Jyothi Rao, Performance analysis of Neural Network Algorithms on Stock Market Forecasting ,International Journal Of Engineering And Computer Science ISSN:2319-

7242 Volume 3 Issue 9 September, 2014 Page No. 8347-8351

13. Priya Bhirud, Prof Nandana Prabhu "Performance Evaluation of Filters of Discrete Wavelet Transforms for Biometrics" , International Journal of Informatics and Communication Technology (IJ-ICT) Vol. 3, No. 2, June 2014, pp. 97~102 ISSN: 2252-8776

14. Priya bhirud, Prof Nandana Prabhu "Secured Biometric Authentication using visual cryptography and Transforms" International Journal Computer applications, Sept,2013

15. Mrs. Nasim Shah, Mrs. Nandana Prabhu "Performance Analysis of control parameters of Artificial Bee Colony Algorithm for JPEG Images,"International Journal of science and Modern Engineering (IJISME) ISSN: 2319-6386, Volume –I, Issue -8, July 2013

Conferences

1. Aishwarya Suresh, Akash Pareri, Deep shah, ShreyaUghade,Nandana Prabhu,"Voice Enabled Mobile Application for The Visually Impaired" International Conference on Recent Advances in Computer Science and Information Technology (ICRACSIT) ,13 May, 2022

2. Swapnil More, Aziz Thanawala, Taniskh Sheikh, Nandana Prabhu, "Bird's Eye: Analysis of Video Surveillance data using Deep learning", International Conference for Convergence in Technology(I2CT), and published in IEEEE Explore, April 02-02, 2021

3. Atul Sawant, Nandana Prabhu, Sangeeta Nagpure " Securing IoT using MultiChain", International conference on advances in Science and Technology", April 2019. http://ssrn.com/link/2019-ICAST.html

4. Smit Hapani, Nikhil Parakhiya, Nandana Prabhu, Mayur Paghdal,Automated Attendance System using Image Processing, 2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), 978-1-5386-5257-2/18/$31.00 ©2018 IEEE

5. N. Prabhu, D. Bhoir, U. Rao, "Template matching technique for Optic Disc localization in Fundus Image" Proceedings of the 12th INDIACom, INDIACom-2018, IEEE Conference ID:42835 2018 5th International Conference on "Computing for Sustainable Global Development," March, 2018

6. N. Prabhu, D. Bhoir, U. Rao, "Performance Evaluation of Different Preprocessing Techniques for Blood Vessel Extraction in Fundus Images" 3rd IEEE International Conference in Computer, Communication and Control, IEEE Explore ICAC3'2017. DOI: 10.1109/ICAC3.2017.8318765

7. Nandana Prabhu, Deepak V. Bhoir, Uma Rao, 11th INDIACOM-2017, IEEE Conference ID40353 2017 International Conference on Computing for Sustainable Global Development "Automatic Detection of Diabetic Retinopathy: A Review", , March 01-03,2017.

8. Mrs. Nandana Prabhu, " Color Space and Transforms for Retina Recognition" 8th INDIACOM 2014, International Conference on Computing for Sustainable Global Development, ISSN 0973-7529, ISBN 978-93-80544-10-6

9. Nandana Prabhu, "Retinal Recognition System" published in International Conference on "Information, Communication and Embedded Systems" ICICES, Madras, February 23-24, 2011

10. "Exploring Bluetooth and Wi-Fi coexistence",Paper published in National Conference on Computing for Nation Development" BVICAM , New Delhi, March 10-11, 2011.

11. "Asset Tracking and Navigation using GPS – GSM, paper published in National Conference on Digital Information Management March 23-24, 2007.

Books/Book Chapters

1. N. Prabhu, D. Bhoir, U. Rao, N. Shanbhag, "Exudate Based Classification for Detection of Severity   of Diabetic Macula Edema" Computing Conference 2020 published in the Springer series "Advances in Intelligent Systems and Computing", 16-17 July 2020 in London, United Kingdom

2. N. Prabhu, D. Bhoir, U. Rao, "Performance Analysis of Convolutional Neural Networks for Exudate Detection in Fundus images" 3rd International Conference on   Intelligent Computing and Communication(ICICC 2019), Dayanand Sagar University, Bangalore, India, 07-08 Jun 2019 and publication in Springer series Advances in Intelligent systems and Computing (AISC)

Somaiya Vidyavihar University

Research projects:
1. Member: Somaiya Trust approved project "Artificial and Geo Intelligence Laboratory and its Applications" Rs. 26,46,000 for three years
2. Member: 'Level 1: Standard Summer/Winter School Geospatial Capacity Building Project', submitted to the National Geospatial Program, Department of Science and Technology, Government of India , 2024 Rs. 10lakhs

Online Courses Certification

Online Resource	Name of the Course	University	Year
Udemy	Learning Deep learning in ArcGis to advance GIS skills	--	Dec15,2022
Coursera	Data-Driven Decisions with Power BI	Knowledge accelerators	July14, 22
Coursera	Exploring and Producing data for Business essentials	Illinois	Aug 05,2021
Coursera	Basic Data descriptors, Statistical Distributions, and Application to Business Decisions	Rice University	Aug 21,2-21
NPTEL	Data Science for Engineers	IIT Madras	Mar2021
Coursera	Excel skills for Business Essentials	Macquarie University	July 2020
Coursera	Artificial Intelligence for Everyone	deeplearning.ai	June 2020
Coursera	Fundamentals of Quantitative Modeling	Wharton University	May2020
NPTEL	Python for data science	IIT Bombay	Nov 2019
NPTEL	Digital Image Processing	IIT Bombay	Oct2016
Coursera	Fundamental Image and Video Processing	Northwestern University	May 2016
Coursera	Mastering Data Analysis in Excel	Duke University	Dec2015

Notable Key Scholastic Achievements

1.	Educational Achievement Awards , Somaiya Trust, 2014
2.	Longest Student Branch Counsellor, CSI, India 2015
3.	Distinguished Associate Professor, Technext India, CSI chapter, Region VI, jan2017

Notable Positions and Responsibility

1.	IQAC member, Somaiya Vidyavihar University since Oct 2022
2.	Department Advisory Board member, Shah and Anchor College of Engineering, April 2023 till date
3.	Secretary, SVU_WDC since August 2022
4.	IQAC Coordinator, KJSCE From Oct 2014- May 2016 From August 2021 till date
5.	Coordinator, Learning outcome based Curriculum Framework, Quality mandate of KJSCE, SVU, March 2021 till date
6.	Convenor, Syllabus for the course Geographical Information Systems(Elective) for SEM VIII for Department of Information technology, University of Mumbai (2015)
7.	IQAC KJSCE Department representative 2016-2021
8.	Member, Board of Studies, Department of Information Technology, 2012 till date

9.	Member, Women Development Cell, KJSCE 2012-2021
10.	Member RMRC, KJSCE since 2014 till date
11.	Library Committee member ,Institute level June2006 to Jan2013
12.	Library In charge, Oct 2009-June2010
13.	Treasurer , ISTE Faculty chapter , KJSCE 2011-13
14.	Department Representative, NBA, Program of Information Technology, 2013
15.	Coordinator NBA, Program of Information Technology 2009
16.	TEQIP Coordinator- Form filling, July 2010 to March 2011(State level selected)
17.	Department representative, ISTE Faculty chapter , KJSCE 2009-11
18	Head, Department of Information Technology, KJSCE 2005-2009
19	Faculty Development Committee, from June2006- Dec2015
20	Secretary, International Conference on Information Communication and Technology, KJSCE, Mumbai, 2009.
21	Head, Department of Electronics, 1995-1998
22	Head, Department of Electronics and Telecommunication, 2003-2004
23	Life Member Institute of Electronics and Telecommunication Engineers since 1998
24	Life Member Indian Society of Technical Education, New Delhi, India, since 2004

Date: 01/10/ 2024   **Signature of Faculty Member**