Name of Teaching Staff	:	Prof. Purva Chaitanya Badhe
Designation	:	Assistant Professor
Department	:	Artificial Intelligence and Machine Learning
Date of Joining the Institution	:	11.07.2011
Email ID	:	Purva.nanivadekar@djsce.ac.in
Office Contact		022-42335000
Vidwan Link	:	https://vidwan.inflibnet.ac.in/profile/339442
Google Scholar Link:		https://scholar.google.co.in/citations?user=axiwxXgAAAAJ&hl=en
Researchgate Link:		https://www.researchgate.net/profile/Purva-Badhe-2
ORCID		0000-0001-5725-5934
Publons Researcher ID:		https://www.webofscience.com/wos/author/record/ACD-4382-2022
Qualifications with Class / Grade	:	1. PhD (Engineering)- Pursuing 2. M.Tech (Artificial Intelligence) – 1st Class with Distinction- NMIMS University 3. M.Tech (Electronics and Telecommunication)- 1st Class with Distinction (University Gold Medalist)- NMIM University 4. B.E. (Biomedical Engineering) – 1st Class with Distinction – Mumbai University
Total Experience in Years	:	**Teaching: 14 years** **Industry: 2 Years** Worked as a Trainee Engineer- Service Dept, Transasia Bio-medicals Ltd.
Papers Published in Journal:	:	1. Dynamic Gestural Sign Recognition Using Deep Neural Network, Journal of Emerging Technologies and Innovative Research, http://doi.one/10.1729/Journal.35726 2. Image Processing based methodology for Determination of Sperm Count and Vitality in Semen Sample, Proceedings of 2020 International Conference on Inventive Computation Technologies (ICICT), 10.1109/ICICT48043.2020.9112416 3. Artificial neural network based Indian sign language recognition using hand crafted features, Proceedings of 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 10.1109/ICCCNT49239.2020.9225294 4. A Review on Posture Assessment, IOSR Journal of Sports and Physical Education (IOSR-JSPE), 10.9790/6737-05050815 5. Indian sign language translator using gesture recognition algorithm, 2015 IEEE international conference on computer graphics, vision and information security (CGVIS), 10.1109/CGVIS.2015.7449921

		6. Indian sign language recognition: database creation, hand tracking and segmentation, IEEE Proceedings of 2014 International conference on circuits, systems, communication and information technology applications (CSCITA), 10.1109/CSCITA.2014.6839287 7. Micro-angiographic Fluoroscope, International Journal of Engineering and Technical Research (IJETR) 8. A review of X-ray in line phase contrast imaging in diagnosis of cardiac embolization and malignant tissue, International Journal of Engineering Trends and Technology, 10.14445/22315381/IJETT-V29P219 9. Comparative Review of Ultrasound Based Techniques used for Diagnosis of Prostate Cancer, International Journal of Engineering Trends and Technology (IJETT), 10.14445/22315381/IJETT-V23P227 10. Microcontroller based Rehabilitation Stimulator, International Journal of Computer Applications 11. Gesture recognition: a revolutionary tool, International Journal of Technological Advancement and Research
Papers Presented in Conferences	:	1. Image Processing based methodology for Determination of Sperm Count and Vitality in Semen Sample, International Conference on Inventive Computation Technologies (ICICT) 2. Artificial neural network based Indian sign language recognition using hand crafted features, International Conference on Computing, Communication and Networking Technologies (ICCCNT) 3. Indian sign language translator using gesture recognition algorithm, IEEE international conference on computer graphics, vision and information security (CGVIS) 4. Indian sign language recognition: database creation, hand tracking and segmentation, International conference on circuits, systems, communication and information technology applications (CSCITA)
Area of Specialization		Medical Imaging, AI in Healthcare, Computer Vision, Pattern Recognition, AI in Finance
Professional Memberships	:	Life Member of ISTE	Membership No.: LM130251

| Subjects Taught | | **UG Level:**
• Artificial Intelligence
• Digital Signal and Image Processing
• AI in Finance
• Design Thinking
• Time Series Analysis
• Digital Logic Design
• Digital Communication
• Universal Human Values
• Radiology Imaging
• Laser and Fiber Optics
• Basics of Electrical and Electronic Engineering
• Medical Imaging
• Physiology and Biomechanics
• Nuclear Medicine
• Introduction to Simulation tools
• Electronics Instrumentation and Control System
• Human Anatomy and Physiology
• Microprocessors | |
| Projects Guided | : | **UG Level:**
More than 15 Projects in the domain of Biomedical Engineering and AIML. | |

Recommended Students for Higher Education		**Name of the Student**	**University/Industry**
		More than 50 Students recommended in Indian as well as Foreign Universities for Higher Education.	Johns Hopkins University University of California – Berkeley University of Pennsylvania Columbia University Duke University Georgia Institute of Technology University of Michigan - Ann Arbor University of Southern California University of Illinois Urbana-Champaign University of California NYU Tandon School of Engineering University of Washington Graduate School Purdue University Arizona State University University of Minnesota Boston University Stony Brook University Northeastern University Etc.
Institute/Department Responsibility handled:		- College level Co-Coordinator of UHV Cell - NAAC Core Committee Member Cr 6 - Part of Exam and Evaluation Committee - Direct SE Admission Committee member - College Examination and Cap Committee Member - Coordinator- Symposium 2017 - Part of Autonomy Committee - Dept. NBA committee in charge - Examination Coordinator of Dept. - Alumni in charge of Department of Biomedical Engineering	