Name of Teaching Staff	:	Shruti N Dodani	
Designation	:	Assistant Professor	
Date of Joining the Institution	:	02.07.2012	
Email ID	:	shruti.savant@djsce.ac.in	
Office Contact	:	022-42335000 Extension: 111229	
Google Scholar Link	:	https://scholar.google.co.in/citations?user=mMAEbnEAAAAJ&hl=en	
Researchgate Link:		https://www.researchgate.net/profile/Shruti-Dodani	
ORCID		https://orcid.org/0000-0002-3604-3235	
Publons Researcher ID	:	https://publons.com/researcher/4957349/shruti-dodani/	
Qualifications with Class / Grade	:	**M.Tech.(Data Science)** , 2nd Rank , NMIMS **M.Tech.(Instrumentation and Control),** College of Engineering Pune, Pune University**,** June 2012. **B.E. (Biomedical Engg.)**, June 2010, (80.00%), University of Mumbai**.**	
Total Experience in Years	:	13	
Papers Published in Journal:	:	- Arterial Blood pH Monitoring Using a Fingertip Device to Predict Cardiovascular as Well as Respiratory Diseases. In: Mukherjee M., Mandal J., Bhattacharyya S., Huck C., Biswas S. (eds) Advances in Medical Physics and Healthcare Engineering. Lecture Notes in Bioengineering. Springer, Singapore. https://doi.org/10.1007/978-981-33-6915-3_38 - A Braille Learning Device for the Visually Impaired. In: Manchuri, A.R., Marla, D., Rao, V.V. Intelligent Manufacturing and Energy Sustainability. Smart Innovation, Systems and Technologies, vol 334. Springer, Singapore. https://doi.org/10.1007/978-981-19-8497-6_15	
Papers Presented in Conferences		- Deep Learning Techniques to Identify and Grade Diabetic Retinopathy through Fundus Images, AIP Conference Proceedings, 2024, 3242(1), 06000 - Detection of Diabetic Retinopathy Using Deep Learning Techniques, 2024 IEEE 3rd World Conference on Applied Intelligence and Computing, AIC 2024, 2024, pp. 898–904 - Detection and Prediction of Alzheimer's disease using Deep learning: A review, Detection and Prediction of Alzheimer's disease using Deep learning: A review - Tumor Visualization Model for Determining Pathway in Radiotherapy. In: Mathur, G., Bundele, M., Tripathi, A., Paprzycki, M. (eds) Proceedings of 3rd International Conference on Artificial Intelligence:	

		Advances and Applications. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-7041-2_47
		• "Jihva Parikshan Using Image Processing", In: Saroj Hiranwal and Garima Mathur (eds), Artificial Intelligence and Communication Technologies, SCRS, India, 2023, pp. 739-751.
		• Article: A review of different method of Watermarking for medical Images Authentication, ISSN: 2321-9653; IC Value: 45.98, Volume 7,Issue XI, November 2019 in International Journal for research in applied science & engineering technology
		• Tongue Diagnosis Using Image Processing. In: Reddy V.S., Prasad V.K., Wang J., Reddy K.T.V. (eds) Soft Computing and Signal Processing. Advances in Intelligent Systems and Computing, vol 1340. Springer, Singapore. https://doi.org/10.1007/978-981-16-1249-7_55
		• Article: Review on Image Analysis of Retinal Blood Vessel Images for Diagnosis of Diabetic Retinopathy. IJCA Proceedings on International Conference on Computer Technology ICCT 2015(2):28-30, September 2015.
		• Driver Drowsiness Detection System. IJCA Proceedings on International Conference on Intuitive Systems and Solutions 2012 ICISS (1):11-13, August 2012
Area of Specialization		**Signal & Image Processing, Data Science,Healthcare**
Professional Memberships	:	**ISTE** **LM 130252**	
Grants fetched	:	Minor Research Grant (University of Mumbai)	Name of the project : "Pre-transfusion testing device for checking blood compatibility " As Co-Pi ,AY:2019-2020

Interaction with Professional Institutions	:	**Other Achievements and Responsibilities:**	- Member of Mumbai University Syllabus Revision Committee - Mumbai University Paper Setter - MTech(Data Science) Meritorious student , 2nd Rank - Topper (Top 2%) in certification course "Data Science for Engineers" by NPTEL IIT Madras - Topper (Top 1%) in NPTEL course "Medical Image Analysis", Nov 2024 - Presented Project "Mini - Keyboard for Visually Impaired" in Final Round of Tantravihar 2022(Competition) - Research Paper awarded 3rd at IEEE AMPHE 2020 Conference – "Arterial Blood PH Monitoring using a fingertip device to predict Cardiovascular as well as respiratory diseases "organized by ADMAS University, Kolkata - Two Global Certifications of SAS: Predictive Modeler using SAS Enterprise Miner 14 and Associate: Programming Fundamentals using SAS 9.4 - TEQIP Scholarship for Academic Year 2010-11(M. Tech.) - JRD TATA Trust Scholarship for AY 2008-09 (B.E.) - Merit holder (15th Rank) S.S.C. Mumbai Board
Subjects Taught		**UG Level:** - Optimization Techniques - Natural Language Processing - Computer Vision - Image Processing - Python Programming - Digital Signal & Image Processing Applications - Basic Electrical & electronics Engineering - Signals & Systems - Digital Signal Processing **IBM Advanced Technology Courses Taught:** - Python Practical (Jan- April 2020) - Applied Statistics Practical (July- Nov 2020) - Deep Learning Practical (Jan- April 2021)

Projects Guided	:	**UG Level:**
		- Stacked Ensemble-Based Framework for Predicting Market and Tactical Fit in Football Transfers - EDUMAP: Multi-Document Summarizer and Mind-Map Generator - DecepTech AI: Advancing Lie Detection Through Multimodal Nonverbal Behavior Analysis - Vein Detector - Foot Planter Pressure Measurement - Jiwha Parikshan - Automatic Tongue Diagnosis System - Pre-Transfusion Testing Device for checking Blood Compatibility (Sponsored by Mumbai University) - Detection of Alzheimer's disease using Deep Learning - Mini - Keyboard for Visually Impaired - Automated Technique for 3D Visualization & Efficient pathway detection in Radiotherapy - Podoscope - Applying Deep Learning Techniques for Early Detection of Alzheimer's using Biomarkers
Training		**NPTEL : 06** **ATAL :04** **IBM :06** **Coursera :31** **FDP/STTP :21** **SAS :02**
Recommended Students for Higher Education		**Name of the Student** More than 80 students	**University/Industry** Various Universities in USA,Canada, Germany & India

Institute/Department Responsibility handled:		- Timetable coordinator - Student Mentor - Symposium Chairperson - Class In-charge - Laboratory in charge - Member in Autonomy Committee - Program Advisory Committee - Member Admission Committee - Member Cultural Committee - LMS –Blackboard/Portal coordinator - Member Sports Committee - Website Coordinator - Term Test Coordinator - Annexure Coordinator - Board of Studies Coordinator
Pedagogy Development		Various approaches have been implemented in classroom like: Class Tests, Online Quizzes using different platforms, Flip Classroom techniques etc. Recorded lectures in various subjects