

Somaiya Vidyavihar University

Name: Dr Vaibhav Prakash Vasani		E-mail: vaibhav.vasani@somaiya.edu	
Contact No: +91 9096310052			
Department/Section: Computer Engineering			
College: K J Somaiya College of Engineering			
DOJ Somaiya:16 July 2018	Career Experience:16+ Yrs	Industry Experience: 0 Yrs	Teaching Experience: 16+Yrs
Present Academic Designation: Assistant Professor		Present Administrative Designation:	

Area of research/specialization and Courses Delivered					
Research domain/interests/areas					
- Database Systems - Data Mining/Big Data Analytics - Data Science/Machine Learning/Deep Learning					
Courses Delivered					
- Software Engineering/Project Management/Operating System/ Theory of Computation/ SPCC/MERN/Programming in C /Python Programming - RDBMS/Advanced Database - Pattern Recognition/ Augmented Reality and Virtual reality /Computer Graphics/Open CV - Applied Data Science/ Data visualization/Data Analytics/Big Data Analytics					

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : No
Details of Recognitions			
- SVU - Mumbai University			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Computer Science and Engineering	Kalinga University	Kalinga University	2025	
PG	MA Hindi	IGNOU, Delhi	IGNOU, Delhi	2023	
PG	Computer Engineering	Mumbai University	Lokmanya Tilak college of Engineering, Koparkhairane	2014	68.48%
UG	Information Technology	S.G.B. Amravati University.	VYWS'S Prof. Ram Meghe Institute of Technology and research and management	2009	70.07%
Diploma	NA	NA	NA	NA	NA
NET/SET/Other	NA	NA	NA	NA	NA

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	Shah and Anchor Kutchhi Engineering	Assistant Professor	15th July 2015	30th June, 2018	03

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	College				
2.	PVPP's College of Engineering and Manohar Phalke polytechnic	Assistant Professor	1st December 2009	29 th May 2015	05

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: NA		No of students completed Ph.D as on date:NA
No of students completed PG thesis / Project work as on date: 02		No of students / groups completed UG projects as on date: 14
Publications Total:16+	Number of Peer review Journal papers:16	Number of Conference papers:10
Details of Publications: International Journals 1. Kagi, S., Gnana, C. K., Martin, R. J., Sharma, B., Vasani, V. P., & Nagpure, S. (2025). Federated deep reinforcement learning (FDRL) framework using pelican optimization to achieve sustainable energy in IoT-integrated wireless networks. International Journal of Information Technology, 1–7. Springer Nature Singapore. 2. Soy, A., & Vasani, V. P. (2025). Implementing mental health services in primary care settings through a public health framework. TPM – Testing, Psychometrics, Methodology in Applied Psychology, 32, 985–991. 3. Vinit, J. P., & Vasani, V. P. (2025). Machine learning-based classification of potato and sweet potato in Maharashtra's agroclimatic zones. International Journal of Advanced Engineering Application, 2, 1–6. 4. Dewangan, O., & Vasani, V. P. (2024). Enhanced ResNet50 model for aqueous solubility prediction of drug compounds using deep learning techniques. Integrative Biomedical Research, 8, 1–6. Eman Research Publishing LLC, USA. 5. Vij, P., & Vasani, V. P. (2024). Machine learning-based in-season nitrogen status prediction using unmanned aerial vehicle remote sensing. Agricultural Biotechnology Journal, 16, 243–256. Shahid Bahonar University of Kerman and Iranian Biotechnology Society. 6. Nayak, A., & Vasani, V. P. (2024). Nanotechnology-based biosensors: A typical analysis of materials, methods, and applications. Agricultural Biotechnology Journal, 16, 279–292. Shahid Bahonar University of Kerman and Iranian Biotechnology Society. 7. Mondal, S., & Vasani, V. P. (2024). Optimized beamforming model for mmWave MIMO antenna for vehicle-to-everything applications with radar communications. National Journal of Antennas and Propagation, 6, 26–32. 8. “Vaibhav Prakash Vasani, Asha Ambhaikar”, “A review based on sentimental analysis for Hindi language”, Vol 37, No 3 , (http://doi.org/10.11591/ijeecs.v37.i3.pp1815-1829)		

9. “Vaibhav Prakash Vasani , Asha Ambhaikar”, “[Qubits and Sentiments: Unveiling New Perspectives in Hindi Textual Data](#)”,[International Journal of Intelligent Systems and Applications in Engineering](#),
10. Vaibhav Vasani; Tejas Khanolkar; Vignesh Sunder Raman; Debdatta Kundu; Tirth Shah, “Bogus User Profile Detection on Matrimonial Sites Using Machine Learning Approach”, 15-17 Sept. 2021, IEEE Xplore: 29 November 2021, DOI: [10.1109/ICECCT52121.2021.9616674](#)
11. Sameer. M. Patel , Sarvesh. S. Pai , Mittal. B. Jain Vaibhav P. Vasani “Optical Character Recognition For Electronic Invoices Using AWS Services”, International Journal of Engineering Applied Sciences and Technology, 2021, vol. 6, Issue 5, ISSN No. 2455-2143, Pages 237-242. (<https://www.researchgate.net/project/Optical-Character-Recognition-for-Electronic-Invoices-using-AWS-Services>)
12. Dale Alphonso, Sandhya Pachupate, Shaivi Ganatra, Swapnil Pawar, Vaibhav Vasani , “VIRA - Virtual Assistant Integrated Business Process Management System for Virtual Assistants”, International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150 Vol-07, Issue-01, APR 2021 , <http://ijream.org/papers/IJREAMV07I0173065.pdf>
13. Vaibhav Vasani, Rajendra D. Gawali, “Classification and performance evaluation using data mining algorithms”, IJRSET , Vol. 3, Issue 3, March 2014, ISSN: 2319-875, page no 10453-10458 (www.ijrset.com/upload/2014/march/74_Classification.pdf)
14. Aakash Saroop, Pathik Ghugare, Sashank Mathamsetty, Vaibhav Vasani, “Facial Emotion Recognition: A multi-task approach using deep learning”, arXiv preprint arXiv:2110.15028 (<https://arxiv.org/abs/2110.15028>)
15. Mritunjay Musale, Vaibhav Vasani, “Benchmarking of Deep Learning models on 2D Laminar Flow behind Cylinder”, arXiv preprint arXiv:2205.13485, (<https://arxiv.org/abs/2205.13485>)
16. “Karan Sanghvi, Vivaash Jain, Parsh Jain, Vaibhav Vasani”, “[Intruder Detection Recognition Alert System for Fencing Defence using Image Processing Techniques](#)”, IJARST, Volume 4, Issue 2, July 2024

National Journals: NIL

International Conferences

1. Rahman, F., & Vasani, V. P. (2025). Adaptive cybersecurity framework utilizing random forest and SVM for real-time threat detection in cloud environments. 2025 International Conference on Automation and Computation (AUTOCOM), 241–246. IEEE.
2. Raja, A., & Vasani, V. P. (2025). Satellite-based remote sensing for monitoring soil carbon sequestration in agroforestry systems. SHS Web of Conferences, 216, 01057. EDP Sciences.
3. Soy, A., & Vasani, V. P. (2025). AI-powered soil nutrient mapping for optimized crop rotation strategies with advanced multispectral analysis and precision variable rate technology. SHS Web of Conferences, 216, 01062. EDP Sciences.

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4. Soy, A., & Vasani, V. P. (2025). Medical image denoising using deep convolutional autoencoders for ultrasound. 2025 International Conference on Automation and Computation (AUTOCOM), 262–267. IEEE.
5. Dewangan, O., & Vasani, V. P. (2024). SIES development for EOPMS towards Industry 4.0. 2024 International Conference on IoT, Communication and Automation Technology (ICICAT), 158–161. IEEE.
6. “Vaibhav Prakash Vasani, Swapnil Chandrakant Pawar, Sowmya P., Shahanawaj Ahamad, Aradhana Sahu, Gokul Talele”, “Transformer Models for Enhanced Natural Language Processing in Medical Records Management”, “<https://ieeexplore.ieee.org/document/108>”
7. Quantum Intelligence and NLP for Personalized Sentiment Analysis: Integrating User Profiles for Enhanced Accuracy in 5G-enabled Communication Environments, 5th International Conference On Mobile Radio Communication & 5G Networks -2024, Organized by Kurukshetra University, 23rd -24th August-2024, Published in Springer.
8. Nishi Shah, Neil Parekh, Kshitij Jain, Bemila Theres, Vaibhav Vasani “Comparative Study of Various Clustering Algorithms and Sentiment Analysis Methodologies ”, ICRTCEE 2017, “https://www.ijritcc.org/download/conferences/ICRTCEE_2017/ICRTCEE_Track/1494999227_17-05-2017.pdf”
9. Vaibhav Vasani, Rajendra D. Gawali, “Placement Prediction of students using Association Rule”, International Journal of Informatics and Communication Technology (IJ-ICT), December 2012
10. Vaibhav P. Vasani, “Neural Network based Face gesture recognition”. International conference at YTIT, March, 2012.

Books/Book Chapters

1. Deep Learning IDOL, IoT, Advanced Database, IOT (Four Books)
2. Vaibhav Prakash Vasani, Umesh Chandra, Gayatri Sahu, Srinivasulu Boyineni, S Dhamodaran, Makhan Kumbhkar, Mritunjay Rai, Swati Gupta “Introduction to Emotion Detection and Predictive Psychology in the Age of Technology”, (DOI 10.4018/979-8-3693-1910-9.ch001)

Patents/Copy Rights

1. Rotten and Fresh Citrus Fruit Classification Using Deep Learning (Registration Number L-163413/2025)

No of Research / consultancy / projects completed:
Rs:Nil

No of Research / consultancy / projects on-going:
Rs:Nil

No of Research / consultancy / projects on applied as on date:
Rs:nil

Details of Research / consultancy / projects:

Completed

1. Nil

On-going

1. Farmer Diary for KIAAR.

Applied

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1. Nil
IPR/ Copyrights
1. Rotten and Fresh Citrus Fruit Classification Using Deep Learning (Registration Number L-163413/2025)

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered
Attended
1.
Organized
1. FDP on Full Stack Development using MERN Stack in association with IQAC
2.
Delivered
1. FDP on Full Stack Development using MERN Stack in association with IQAC
2. s

Notable Key Scholastic Achievements	
1.	
2.	

Notable Positions and Responsibility	
1.	Faculty Advisor for SMLRA
2.	Coordinator for Software Development Cell (SwDC)
3.	Department Timetable coordinator
4.	Department Honours Coordinator
5.	FY Coodinator
6.	LY Syllabus Coordinator

Date: 20 / 10/2025

Signature of Faculty Member