BIO-DATA

1.	Name	Dr. Mukta Nivelkar
2.	Designation	Assistant Professor
3.	Residential Address	Navi-Mumbai
4.	Date of birth	July
5.	Total Experience	18
i.	Teaching	18
ii.	Industrial	00
6.	Qualifications	PhD (VJTI Mumbai)

Exam Passed	Year	Institution/ University	Branch/Specialization	Percentage/CGPI
2024	2019	VJTI Mumbai	**PhD in Computer Engineering**	Awarded
2012	2010	Mumbai university	ME in IT	76%

Additional Qualification:

7. Employment Record

Institution	Year (From To)	Designation	
FCRIT VASHI	2007-Present	Assistant Professor	

8. Undergraduate / Postgraduate Teaching Experience and Subjects Taught

Subjects Taught at UG level

Sr.No.	Name of Subject	Semester
1)	SPA	II
2)	DSA	III
3)	OS	IV
4)	INS	IV
5)	MC	VII
6)	MS	VIII
7)	WN	VII
8)	Blockchain Lab	VIII
9)	DevOps	V
10	Advance DevOps	V
11)	Quantum Mechanics	IV

9. Research Experience

10. Research Funding / Consultancy Services:

Research Grants:

Technical Collaboration / Lab Funding with Industries

11. Professional Societies Fellowship / Membership: CSI/ ISTE

ISTE Membership No 63620

12. Achievements / Awards / Position
- Late SMT. **MOHINI P. CHHABRA AWARD** 2006-07 **TO STAND FIRST IN B.E.**
- **Thesis Advisory Committee Member** at NMIMS University, Vile Parle.

13. Projects guided in UG/PG/PhD level

Title of Project Guided	Year	Category
Stroke rehabilitation	2024-25	Major Project BEIT
Sign Language recognition (voice based)	2023-24	
Sign Language recognition	2022-23	
Hate Analysis on social media Text with User Alert.	2021-22	
Surveillance system with Digital Signage	2020-21	

14. Short Term Training Programmes attended

Sr. No.	Name of Program attended
1	Short Term Training Program on Integrating GenAI in App, Organised by Fr. C. Rodrigues Institute of Technology, Navi Mumbai dated 8/4/2024 to 13/4/2024
2	Five – Day Faculty Development Programme on Quantum Computing: A New Paradigm of Science & Technology, Organized by Research and Development Cell, St. Thomas' College of Engineering & Technology, Kolkata with Technical Co-Sponsorship of IEEE Kolkata Section. 13/5/2024 to 17/5/2024
3	Participated in a two-week online Capacity Building Programme on "**Data Science**" organized during 19th May – 01st June, 2023 under a project on "Empowering Girls to Reduce the Gender Gap in IT and ITES Sectors in South Asia Region: Training and E-Content Development Programme". Organized by PDPM IITDM Jabalpur, India.
4	"Machine Learning Application in Signal Processing and Communication Engineering" organized by Electronics & ICT Academy Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India Indian Institute of Technology Guwahati during 03/01/2022 to 08/01/2022
5	Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Quantum Computing" from 2021-2-22 to 2021-2-26 at Thadomal Shahani Engineering College.
6	Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Quantum Computing" from 2021-1-18 to 2021-1-22 at Thakur College Of Engineering and Technology.
7	Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Quantum Computing" from 2021-1-4 to 2021-1-8 at K.S.Rangasamy College of Technology.
8	Participated in a 40-hours Online Faculty Development Program titled "Data Science for ALL" jointly organized by Electronics and ICT Academics at NIT Warangal, IIITDM Jabalpur, IIT Kanpur, NIT Patna, IIT Guwahati, MNIT Jaipur and IIT Roorkee during 12th - 23rd April 2021.
9	Online workshop on Quantum Computing during 24 - 29 August 2020 jointly organized by Electronics & ICT Academies.
10	Qiskit Global summer school Orgnaised by IBM on Quantum Computing from 20th July 2020-31st July 2021

		11	One-week STTP IEEE-GRSS Sponsored on "High Performance Computing" organised by Computer dept at RAIT during 11-16 Nov 2019
		12	One-week STTP on "Natural language processing" at FCRIT vashi organized by Computer Engg. Dept during 2-7 January 2020
		13	One day Workshop on R' held at SIES Graduate School of Technology, Nerul, Navi Mumbai on 09 November 2019 This training was organised by the Teaching Learning Centre, ICT at IIT Bombay.
		14	Applied exercise and learning development at Qiskit Global Summer School 2020 "Demonstrating applied understanding and comfort with and about Quantum Computing using Qiskit" during July 20th to 31st 2020
		15	One-week online FDP on "R Programming" organised by Fr. CRIT, Vashi, Navi Mumbai during 18th -23rd May, 2020
		16	5 Days Online STTP on Internet of Things and Its applications in Industry Jointly organised by Department of Instrumentation Engineering RAIT and B&R AUTOMTION Pune from 8-12 June 2020

15.	List of Journal Papers Published		
	Sr. No.	DETAILS OF PAPERS PUBLISHED	Scopus Index
	1	**Quantum Computing to Study Cloud Turbulence Properties** Nivelkar, M., Bhirud, S., Singh, M., Ranjan, R., Kumar, B. *IEEE Access* 2023, 11, pp. 70679–70690 DOI: 0.1109/ACCESS.2023.3289924	Quantum Computing Study Cloud Turbule Properties | IEEE Jou Magazine | IEEE Xpl
	2	**Investigation and Statistical Analysis of Cloud Droplet Dynamics Using Quantum Computing,** Nivelkar, M., Bhirud, S., Ranjan, R., Kumar, B. *Journal of Computer Science*, 2024, 20(3), pp. 344–356	jcssp.2024.344.356.p (thescipub.com)
	3	Mukta Nivelkar and S. G. Bhirud. **"Modelling of Supervised Machine Learning using Mechanism of Quantum Computing."** Journal of Physics: Conference Series, Volume 2161, 1st International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2021) 28-30 October 2021, Manipal, India. **Citation** 2022 J. Phys.: Conf. Ser. **2161** 012023 doi:10.1088/1742-6596/2161/1/012023	Scopus preview - Niv Mukta - Author detai Scopus
	4	Mukta Nivelkar, Sunil Bhirud" **Investigation on the Significance of Incorporating Quantum Computing Technology into the Prevailing Curriculum"**, East African Scholars J Eng Comput Sci; 2024, 7(3): 13-20, DOI: 10.36349/easjecs. 2024.v07i03.001	Google Scholar
	5	Rohini B., Binu J, Calista G, Mukta Nivelkar, **"Auxilium for Search and Rescue"**, In International Journal for Research in Engineering Applications and Management (IJREAM), Vol 07, Issue11, pp 59 – 62, Feb 2022. DOI: 10.35291/2454-9150.2022.0051 ISSN :2454-9150 IJREAM-Approved By UGC	UGC
	6	Swedel Lasardo, Aniket Ghotinde, Sasha David, Mukta Nivelkar, "Surveillance using Digital Signage", **International Research Journal** of Engineering and Technology (IRJET), Volume 08, Issue 02, Feb 2021, e-ISSN : 2395-0056 p- ISSN : 2395-0072	**Non SCI**
	7	**"Self-Order Spot on interactive in-Built Console"** International journal of Information Systems (SIMCA) Vol-IV Issue II, ISSN 2229-5429, Jan-May 2014	Google Scholar

	8	**"IT-Enabled Future of Construction Field"** International Journal of Global Technology Initiatives published in IJGTI Journal IJGTI, volume 2, issue 1 ISSN(print): 2277-6591 ISSN(online):2320-1207 , 29th,30th March 2013	Google Scholar	
	9	**"Document database implementation for group work anagement and technical Enhancement"** International Journal of Emerging Technology and Engineering, May 2012.	Google Scholar	
16.	**List of Papers Published in National and International Conferences**			

Sr. No.	DETAILS OF PAPERS PUBLISHED	Scopus Index
1	M. Nivelkar and S. G. Bhirud, **"Optimized Machine Learning: Training and Classification Performance Using Quantum Computing,"** 2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA), 2021, pp. 8-13, doi: 0.1109/ICCCA52192.2021.9666429.	Scopus preview - Nivelkar, Mukta - Author details - Scopus
2	Nivelkar M., Bhirud S.G. (2022) **Quantum Computing and Machine Learning: In Future to Dominate Classical Machine Learning Methods with Enhanced Feature Space for Better Accuracy on Results**. In: Balas V.E., Semwal V.B., Khandare A. (eds) Intelligent Computing and Networking. Lecture Notes in Networks and Systems, vol 301. Springer, Singapore. https://doi.org/10.1007/978-981-16-4863-2_13	Scopus preview - Nivelkar, Mukta - Author details - Scopus
3	Nivelkar M., Bhirud S.G. (2022) **Supervised Machine Learning Strategies for Investigation of Weird Pattern Formulation from Large Volume Data Using Quantum Computing.** In: Bianchini M., Piuri V., Das S., Shaw R.N. (eds) Advanced Computing and Intelligent Technologies. Lecture Notes in Networks and Systems, vol 218. Springer, Singapore. https://doi.org/10.1007/978-981-16-2164-2_45	Advanced Computing and Intelligent Technologies | SpringerLink
4	Mukherjee D., Paulson A., Varghese S., Nivelkar M. (2020) **SNAP N' COOK—IoT-Based Recipe Suggestion and Health Care Application.** In: Pant M., Kumar Sharma T., Arya R., Sahana B., Zolfagharinia H. (eds) Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, vol 1154. Springer, Singapore. https://doi.org/10.1007/978-981-15-4032-5_65	Scopus preview - Nivelkar, Mukta - Author details - Scopus
5	Jose Ashley, Nefi Nesan, Riyona Lasrado, Mukta Nivelkar, **"Hate detection for social media text with user alert system"** ICEEE 2022 held in New Delhi, India during January 8–9, 2022	Hate Detection for Social Media Text with User Alert System | SpringerLink
6	**"Schedule Planner Using Machine learning",** 7th National level conference "Innovative Engineering for our nation" Organised by Lokmanya Tilak College of Engineering, Navi Mumba., 16th March 2019	**NA**
7	**"Android Malware Detection System"** International Conference on Advanced Trends in Engineering, Organised By Datta Meghe College of Engineering (DMCE), Navi Mumbai., 4th, 5th April 2019	NA
8	**"Webpage Recommendation System "**, International Conference on Advanced Trends in Engineering, ICATE 2018, Datta Meghe College of Engineering, Airoli , 6th – 7th April, 2018	Google Scholar
9	**"Digi-Board"**, National Conference on Recent trends in Electronics Communication and Computing 2018 D.Y. Patil	Google Scholar

		School of Engineering Academy, Pune, India**, 27th And 28th February 2018**	
	10	**"Smart Writer"** 4th National Conference on "advance technologies and management" ACPCE Kharghar, 23-24 March 2017	Google Scholar
	11	**"SAURON"** "2nd Inter-National Conference on "Nascent technologies" FCRIT Vashi, 21 & 22 Feb 2014	NA
	12	**"Backing Track Generator"** National Conference at Pillai HOC college of Engineering. Technology, Rasayani, 21 & 22 Feb 2014	NA
	13	**"IT-Enabled Future of Construction Field"** International Conference on Global Technology Initiatives organized at Rizvi College of Engineering, Bandra 29th,30th March 2013	Google Scholar
	14	**"Document database implementation for group work management and technical Enhancement"** International Journal of Emerging Technology and Engineering, May 2012.	Google Scholar

17.	**Books/Reports/General articles etc. :** Manuscript No: (2023/BP/2484G), entitled: Discussion on: The Utilization of Quantum Computing Methods for the Implementation of Supervised Machine Learning Frameworks." Book Name: **Theory and Application of Engineering Research, DOI: 10.9734/bpi/taer/v2**	
18.	**Invited Lectures in FDP/ STTP** 1. Guest lecture at Terna Engineering College, Nerul, Navi Mumbai 2016-17 **2.** Visiting Professor at Fr. C.R. Institute of Management studies, Vashi 2013-14 **3.** Session conducted at Fr. C. Rodrigues Institute of Technology Vashi during STTP on Advanced data structure on 29th June 2021. 4. Session/Workshop conducted **on "Demonstration on IBM Quantum simulators using local machine's Anaconda platform"** and **"Quantum Machine Learning for real dataset processing"** on Friday 12 July 2024. 5. Syllabus Setting for Minor Course of Quantum Mechanism, Quantum Computing, Quantum Algorithm, Quantum Programming and Project, Quantum Lab at COEP Pune, Dept of CSE **6.** Visiting Professor at COEP Pune, Dept of CSE for Minor Course **"Introduction to Quantum Mechanism"** from Jan 2025.	
19.	**International Conference Technical Program Committee Member / Reviewer** 1. Registration and Secretarial Assistance Committee Chair-ICNTE2019 FCRIT VASHI 2. Finance Committee Chair –ICNTE 2017 FCRIT VASHI	
20.	**Patents: Patent Titled** on "System and method for analysis of cloud droplet dynamics in high and low vorticity region using direct numeric simulation (DNS) data" Published on March 2023. **Granted in September 2023.**	