

## Somaiya Vidyavihar University

<b>Name:</b> Dr. Archana Gupta		<b>E-mail:</b> archana.gupta@somaiya.edu	
<b>Contact No:</b> 7666966701			
Department/Section: Computer Engineering			
College: K J Somaiya College of Engineering			
DOJ 8/07/2013	Somaiya:	Career Experience: 17 Yrs	Industry Experience: Nil_Yrs
Present Academic Designation: Assistant Professor		Teaching Experience: 17_Yrs	
		Present Administrative Designation: Associate HOD	

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> <li>1. Artificial Intelligence</li> <li>2. Data Science</li> </ol> <p>Courses Delivered</p> <ol style="list-style-type: none"> <li>1. Geographical Information System</li> <li>2. Artificial Intelligence</li> <li>3. Theory of Automata</li> <li>4. Advanced Database</li> <li>5. DBMS</li> <li>6. Operating System</li> <li>7. Data Mining</li> <li>8. Soft computing</li> <li>9. Neural Network</li> <li>10. Compiler Design</li> <li>11. Data structures</li> <li>12. Analysis of Algorithms</li> </ol>

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : No
<p>Details of Recognitions</p> <ol style="list-style-type: none"> <li>1. UG- Mumbai University , SVU</li> <li>2. PG - SVU</li> </ol>			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Computer Science	RGPV, Bhopal	MITS, Gwalior	2021	
PG	Computer Science	RGPV, Bhopal	LNCT, Bhopal	2007	Honours
UG	Computer Science and Engg	Barkatullah University, Bhopal	OIST, Bhopal	2000	74.3
Diploma	NA				
NET/SET/Other	NA				

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)

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1.	KJSCE	Assistant Professor	8/07/2013	-	9+
2.	Terna Engg College, Nerul	Senior Lecturer	July 2008	Nov 2008	5 Months
3.	L.T.C.O.E., Koper Khairne	Lecturer	Jan 2008	May 2008	5 Months
4.	LNCT, Bhopal	Senior Lecturer	Feb 2001	March 2007	6+

### Research Accomplishments and Projects

No of students pursuing Ph.D as on date: Nil		No of students completed Ph.D as on date: Nil
No of students completed PG thesis / Project work as on date: Nil		No of students / groups completed UG projects as on date: 15+ groups
Publications Total:12	Number of Peer review Journal papers: 06	Number of Conference papers: 06

#### Details of Publications:

##### International Journals

1. "Comparison of Classification Techniques for Heart Health Analysis system", www.ijcseonline.org Volume-4(2), pp 92-94
2. "COMVAN: A Novel Data Structure for Storing Large Database for Incremental Association Mining", TECHNIA – International Journal of Computing Science and Communication Technologies, VOL.9 NO. 2 (ISSN 0974-3375)
3. "Hybrid System To Find Association Using Genetic Algorithm And Fuzzy Logic", International Journal for Research in Applied Science and Engineering Technology (IJRASET), ISSN: 2321-9653, Impact factor – 6.887, Vol – 7, Issue – III
4. "Real Time system for detection of DOS attack using Data Mining Algorithms", International Journal for Research in Applied Science and Engineering Technology (IJRASET), ISSN: 2321-9653, Impact factor – 6.887, Vol – 7, Issue – V
5. "An Efficient Tree Based Data Structure For Incremental Frequent Itemset Generation", International Journal for Research in Applied Science and Engineering Technology (IJRASET), ISSN: 2321-9653, Impact factor – 7.177, Vol – 7, Issue – VI.
6. "A system for Incremental Association rule mining without candidate generation", International Journal of Computer Science and Information Security (IJCSIS).. Volume 17 No. 7, ISSN 1974 5500

#### Conferences:

1. "Incremental mining of association rules without candidate generation:., 4th International Conference On Innovations In Science, Engineering & Technology, sponsored by IEEE, Shaastrarth - 2016 at Rungta College of Engineering and Technology, Bhilai .
2. "Optimization and Improvement of Association Rule Mining using Genetic Algorithm and Fuzzy Logic:., International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM-2019)
3. "Stock Market Prediction Using Data Mining Techniques", International Conference on Advances in Science and Technology
4. "Cognitive Sensing based Lie detection:., VNC-2020, TASU, Vidyavardhinin college of Engg. And Technology
5. "Smart Crop Prediction using IoT and Machine Learning: VNC-2020, TASU, Vidyavardhinin college of Engg. And Technology

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6. “Smart Crop Prediction and Assistant: IEEE, International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2022)”		
No of Research / consultancy / projects completed: Rs:_____	No of Research / consultancy / projects on-going: Rs:_____	No of Research / consultancy / projects on applied as on date: Rs:_____
Details of Research / consultancy / projects: Completed 1. Sss 2. Sss On-going 1. Sss 2. Sss Applied 1. Sss 2. Sss		
IPR/ Copyrights 1. sss 2. sss		

<b>FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered</b>
<b>Attended</b> <ol style="list-style-type: none"> <li>1. “Introduction to Machine Learning” FDP</li> <li>2. “Data Science and Big Data Analytics:, STTP</li> <li>3. “IOT Communication using MQTT Cloud Services”, Workshop</li> <li>4. “Tenserflow and React Native”, Workshop</li> <li>5. “Cloud Computing:, NPTEL Online Course</li> <li>6. “Wireless Network Simulation- Emulation using Qualnet – Exata”, Workshop</li> <li>7. “Data Science”, FDP</li> <li>8. “Spatial Informatics” NPTEL Online Course</li> <li>9. “Geospatial”, STTP</li> <li>10. “R Programming”, FDP</li> <li>11. “Arduino”, FDP</li> <li>12. “R Programming”, FDP</li> <li>13. “Online training on LATEX”, FDP</li> <li>14. “Effective and Efficient Online Teaching in the Age of Corona, A Hands-On Workshop”, Workshop</li> <li>15. “IoT and its applications in Industry”, STTP</li> <li>16. “Research Perspective in Futuristic Computing Technologies”, FDP</li> <li>17. “Role of Machine Learning &amp; Data Sciences in AI”, FDP</li> <li>18. “Quantum Computing:, FDP</li> <li>19. “Data Analysis using Python (Phase-II)”, STTP</li> <li>20. “Learning Outcomes based Curriculum Framework”, Workshop</li> <li>21. “IUCEE Project Management for NEP 2020 Implementation”, FDP</li> <li>22. “PHP &amp; MySQL”, FDP</li> <li>23. “Geographical Information System”, NPTEL Online Course</li> </ol>
<b>Organized</b> <ol style="list-style-type: none"> <li>1. Guest Lecture Organized on “Pattern Recognition”</li> <li>2. STTP Organized on “GIS”\</li> <li>3. Workshop Coordinator for “Workshop on C and C++ by the Teaching Learning Centre (ICT) at IIT Bombay”</li> </ol>

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### Delivered

1. Guest Lecture on “Python Programming – An Introduction”
2. Guest Lecture on “Optimization Techniques”
3. Session in ISTE approved STTP on GIS

### Notable Positions and Responsibility

1. Associate Head of the Department



**Date: 08 / 02 / 2023**

**Signature of Faculty Member**