



## **DR. SHIKHA GUPTA**

**Ph. D.** in Computer Science and Engineering.  
**M.Tech.** in Computer Science and Engineering  
**B.E.** in Information Technology.

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**Designation:** Associate Professor in the Computer Engineering Department.

**Experience:** Educational: 18 Years.

### **Teaching Experience:**

1. Associate Professor in Computer Engineering Department at Rajiv Gandhi Institute of Technology, Mumbai since February 1, 2023 till date.
2. Assistant Professor in Computer Engineering Department at Lokmanya Tilak College Engineering, Navi Mumbai since July 2010 to January 2023.
3. Lecturer in Computer Engineering Department at RCET, Bilai, Chhattisgarh since 13 August 2007 to 16 July 2010. Lecturer in Computer Engineering Department at RIT, Raipur, Chhattisgarh since 10 July 2006 to 12 August 2007.

**Areas of Interest:** IoT, Big Data, Neural Network, AI

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### **Patent:**

**1 granted Patent.**

**Title :** An Empirical System For Risk Assessment Of Mental Illness Disorders Using Neural Network Diagnostic.

**Granted date : 25 May 2022**

## **Book Authored**

**Title:** Artificial Intelligence In Cyber Security

Publisher : Book Rivers

**Publication Year: 2022**

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## **Minor Research Grant Fetched:**

**Title:** Internet of Things For Monitoring Leakage Detection Of Water Distribution Network Using GSM Technology .

Funding Agency : Mumbai University.

**Year:** 2016-17

**Amount :**20,000

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## **Publications**

### **Journals:**

1. “EmpowerU: A Women’s Safety and Empowerment App” The Indian Journal of Technical Education, volume 47, special issue. No. 2, February 2024,ISSN: 0971-3034,pp 5-11.(ISSN **0971-3034 UGC CARE**)
2. “HazeErase: Enhancement of Satellite Imagery” The Indian Journal of Technical Education, volume 47, special issue. No. 2, February 2024,ISSN: 0971-3034,pp 19-25. (ISSN **0971-3034 UGC CARE**)
3. “E-Commerce Websites Through Containerization, Kubernetes Orchestration, and Istio Service Mesh Monitoring” The Indian Journal of Technical Education, volume 47, special issue No. 2, February 2024,ISSN: 0971-3034,pp 26-35.( **ISSN 0971-3034 UGC CARE**)
4. "Air Quality Prediction Using Machine Learning: A Comparative Study," 2023 6th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2023, pp. 485-489,doi: 10.1109/ICAST59062.2023.10454930 (**IEEE**).
5. “Cyber Security for Internet of Things”, International Journal for Research in Applied Science & Engineering Technology, October2022, SJ Impact factor:7.538
6. “Reality Check On Counterfeit News” , IJAIR, New Delhi (India) Volume 8, Issue 4 (IX) pg no. 36-42, October -December 2021, Impact Factor:7.36
7. “Data Analysis, Visualization, and Leak Size Modeling for Water Distribution Network”. In: Wang J., Reddy G., Prasad V., Reddy V. (eds) Soft Computing and Signal Processing. Advances in Intelligent Systems and Computing, vol 898. **Springer**, Singapore. First online 14 Feb 2019.
8. “Automatic and Intelligent Integrated System for Leakage Detection in Pipes for Water Distribution Network Using Internet of Things”. In: Satapathy S., Joshi A. (eds) Information and Communication Technology for Intelligent Systems (ICTIS 2017) - Volume 1. ICTIS 2017. Smart Innovation, Systems and Technologies, vol 83. **Springer, Cham**.
9. Implementation of Alcohol and Collision Sensor in a Smart Helmet”in 2019 International Conference on Nascent Technologies in Engineering (ICNTE), 2019, pp. 1-5, doi: 10.1109/ICNTE44896.2019.8945979.(**IEEE**)
10. “Experimental Study Of Huffman Algorithm Of DataCompression With LZW Technique “,Excel international journal of technology, engineering & management., FAB2015
11. Analysis of different techniques for locating leaks in pipes in water distribution system using WSN, 2014 Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH), 2014, pp. 173-177, doi: 10.1109/CIPECH.2014.7019082.(**IEEE**)

**Conference:**

1. “Aids Reporting System Using Steganography and Cryptography” 5<sup>th</sup> National conference on Advancement in Engineering and Science ,LTCOE, Koparkhairane, 18<sup>th</sup> March2017
2. “Student Performance Analysis Using Data Mining Techniques “National conference on Advancement in Engineering and Science ,LTCOE, Koparkhairane, 18<sup>th</sup> March2017
3. “Simplified CVSS 2.0 for End user” , National conference, organized by LTCE in March 2016 .
4. “Study Of Memory SinkHole In X86 Architecture”, National conference, organized by LTCE in March 2016 .
5. “Wireless Sensor Network and its Routing Protocol: Concept and Research Issue” , National conference , Organized by CCEM, Raipur, Sep14-15, 2014
6. “Web Usage Mining: An Approach To Promote Personalized Recommendation To End User”, National conference, Organized by Velammal Engineering College, Chennai, April 11,2014
7. “An Approach towards Personalization through Web Usage Mining” International conference organized by MCCIA,Pune, 25<sup>th</sup> May 2013
8. “Communication: A Problem & Solution for Hearing Handicapped Person (Deaf & Dumb)” International conference organized by YadavRao Tasgaonkar Institute of Engineering. 6-7 March 2013.
9. “Determination Of Congestion Control in Multicasting” ,National conference organized by MPC CET,Bhilai 14<sup>th</sup> March2009
10. “Evaluation Of IP Multicast Technology” ,National conference organized by BIT,Durg, 7-8Nov. 2008

**Professional Bodies Association:**

- Life Time Membership of ISTE

**Worked as a Reviewer:**

1. 2nd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2024),
2. 3rd International Conference on Advanced Computing Technologies and Applications (ICACTA 2023) organized by SVKM’s Dwarkadas J. Sanghvi College of Engineering.(6,7 October 2023)
3. IEEE- International conference on Advances in Science and Technology (IEEE Bombay Section)Year: 2<sup>nd</sup> and 3<sup>rd</sup> Dec. 2022.
4. IEEE Conference on Technologies for future cities 2021.  
Year: 8<sup>th</sup> -9<sup>th</sup> October 2021
5. *Track signal and image processing for ICCICT 2021 (IEEE Bombay Section)*  
Year: 25-27 June 2021
6. Reviewer for IEEE Transactions on Industrial Informatics. Year: 2017

**Workshop/ STTP / Seminar organized /Attended:**

1. Workshop on React JS (1Week) duration 5 th july 2021 to 10 th july 2021.
2. Webinar on Infosys Springboard briefing on Certification courses, Aug 9, 2022.
3. Webinar on Resume Preparation, 29<sup>th</sup> Jan2022.

4. Webinar on Guidance on Placement Preparation , 22<sup>nd</sup> Jan 2022.
5. NEP2020 Orientation and Sensitization Programme under Malaviya Mission Teacher Training programme(MM-TTP) of University Grant Commission (UGC) organized by UGC- MMTTC, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.) from 14-02-2024 to 23-02-2024 and Obtained Grade A+ .
6. Blockchain : Security, Privacy and Application organized by G H Rasoni Institute of Engineering and Business Management, Jalgaon from 9<sup>th</sup> to 13<sup>th</sup> October 2023.
7. AICTE-ISTE Approved One Week STTP on Innovative Pedagogical Practices” conducted during 3<sup>rd</sup> July 2023 to 8<sup>th</sup> July 2023 by VPPCOE, Mumbai.
8. 1 week national level FDP on “Augmented and Virtual Reality” organized by Vishwakarma Institute of Technology. Kondhawa,Pune from20-24<sup>th</sup> Feb 2023.
9. 5days online FDP on “Amazon Web Services” organized by AVSEC from 27 Feb-3<sup>rd</sup> March2023.
10. AICTE-ISTE Approved One Week orientation Programme on “Cyber Risk and Security” conducted by RAIT, D. Y. Patil is deemed to be University, Nerul , Navi Mumbai from 14th to 20th December 2021.
11. Participated in AICTE-AQIS Sponsored One Week Short Term Training Programme (STTP) on “Moral Values, Ethics and Behaviourial Science” conducted during 14 to 19 June 2021 organized by Thakur college of Engg, & Tech.
12. Participated in “IT for Sustainability” on 15/6/2020 to 26/6/2020 organized by Thakur Institute of Management Studies, Career Development and Research .
13. Participated in 3 days FDP (Jointly under IQAC) on “Trends in Machine Learning and Data Science” during 28<sup>th</sup> to 30<sup>th</sup> June 2021 by LTCOE, Koparkhairne, Navi Mumbai.
14. Participated in six days FDP on “R programming ” held on 27<sup>th</sup> April 2020 to 2<sup>nd</sup> by Padmabh May Vasantdada Patil Pratishthan's College of Engineering.
15. Participated in 5 days FDP on “Python ” held on 4<sup>th</sup> May 2020 to 8<sup>th</sup> May 2020 by Universal College of Engineering.
16. Participated in 5 days FDP on “AI ” held on 22<sup>nd</sup> May 2020 to 26<sup>th</sup> May 2020 by Universal College of Engineering.
17. Participated in 3 days FDP on “ Exploring Research Challenges and Opportunities in science and Technology” held on 27<sup>nd</sup> May 2020 to 29<sup>th</sup> May 2020 by Lokmanya Tilak College of Engineering.
18. Attended the webinar on “Python in Depth using Keras & Tensorflow” held on 16/5/2020 by Lokmanya Tilak College of Engineering.
19. Attended the webinar on “Blockchain Technology & its Application ” held on 18/5/2020 by Lokmanya Tilak College of Engineering.
20. Attended the webinar on “Future Prediction Using Machine Learning Algorithm ” held on 21/5/2020 by Lokmanya Tilak College of Engineering.
21. Attended Leadership Talk with Dr. Pramod Chaudhry and Dr. Abhay Jere, Chief Innovation Officer MHRD held on 16<sup>th</sup> may 2020 .
22. Attended the webinar on “Role of Online Teaching Pedagogy and ICT tools in Outcome Based Education ” held on 30/5/2020 by Lokmanya Tilak College of Engineering

## **QUIZ**

1. Got certificate of merit on”Intellectual Property Right(Basics and its types) ”held on 7/5/2020 organized by Shree L R Tiwari College of Engineering
- 2.Successfully completed “COVID-19 Awareness Quiz” held on 7<sup>th</sup> may 2020 conducted by Nagpur Institute of Technology, Nagpur.