

Name of Faculty Mrs. KAVITHA AGARWAL
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 27-12-2011
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Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE)	Pursuing
PG	M. Tech. (CSE)	Distinction
UG	B. E. (CSE)	First Class

Work Experience

Teaching	13 years
Research	5 years
Industry	06 months
Others	--
Area of Specialization	Cyber Security, Machine Learning, Computer Networks, Internet of Things, Block chain
Professional Memberships	Life Time Member, CSI Number: I1504175 IAENG:322813,ISOC
Responsibilities held at Institution Level	Member, Center of Excellence for Cyber Security
Responsibilities held at Department Level	<ol style="list-style-type: none"> In- charge, Time Table Member, Result Analysis Member, Center of Excellence for Cyber Security Member, Curriculum design for BE Course on IOT, Cyber Security with Blockchain SPOC, Data Security Council of India PEGA Instructor for PEGA University Academia Program Member, Criterion 4 (NBA) Member, Curriculum design for BE and M.Tech Courses Member, Course Expert Group for Non -CSE Courses
Research Guidance	--
Awards Received	<ol style="list-style-type: none"> UGC-NET, TS-SET, GATE qualified. Elite-Topper for the NPTEL Courses on Operating System Fundamentals and Computer Networks. Certified IBM DB2 Academic Associate, Microsoft Technology Associate: Networking Fundamentals, Object Oriented analysis and Design using UML with Essentials of Rational Software Architect, PEGA CSA (Certified System Architect). Certificate of Excellence Award in Teaching. Certificate of Appreciation for exceptional contribution as a judge in Toycathon 2021 and 2022.
Courses Handled at Under Graduate / Post Graduate Level.	Soft Computing, Advanced Databases, Operating System, Cyber Forensics, Computer Networks, Data Structures, Programming in C and C++, Basics of Data Structures, Basics of Cyber Security, Database Management System, Cyber Security.
No. of Papers Published	National Journals – 00 International Journals –12
Projects Carried out	National Conference – 00 International Conference – 05

Patents

1. Patent No.202221008505
Title: Artificial intelligence-based system for improving understanding skills of humanoid robots through implementing neural network.
2. Patent No:202241074002
Title: Real-time Data Monitoring Smart Mining Jacket

Technology Transfer

PEGA Instructor for PEGA University Academia Program
Infosys Campus Connect Program

Invited Speaker

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No. of Books/Chapter Published with details

1. Agrawal, K., Chittineni, S., Reddy, P.V.G.D.P., Subhadra, K., Diaz, E.D. (2023). Lightweight Privacy Preserving Framework at Edge Layer in IoT. In: Bhateja, V., Yang, X.S., Chun-Wei Lin, J., Das, R. (eds) Intelligent Data Engineering and Analytics. FICTA 2022. Smart Innovation, Systems and Technologies, vol 327. Springer, Singapore. https://doi.org/10.1007/978-981-19-7524-0_7
2. Agrawal, K., Bhargav, G., Spandana, E. (2021). Diabetes Diagnosis Prediction Using Ensemble Approach. In: Nath, V., Mandal, J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_66.
3. Gupta, S., Agarwal, K., Venu Gopalachari, M. (2022). Smart Home Infrastructure with Blockchain-Based Cloud IoT for Secure and Scalable User Access. In: Dua, M., Jain, A.K., Yadav, A., Kumar, N., Siarry, P. (eds) Proceedings of the International Conference on Paradigms of Communication, Computing and Data Sciences. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-16-5747-4_24

Details of Short-Term Training Programs/ Faculty Development Programs/ Seminars/ Workshops. Other Trainings (Attended and/ or Organized).

1. Completed Training of trainers program on Cyber Security Essentials 15th Feb to 28th Feb 2023 from CDAC Noida.
2. Attended 9 days FDP on "Design and development of Industry led Curriculum in Technological Era"
3. from 14th to 22nd Dec 2022 at AMET University, Chennai
4. Organized a national level online workshop on Full Stack Development 2022 during the Technical Fest "Headstart 2022" under "Sudhee 2022" on 20th March, 2022 at Chaitanya Bharathi Institute of Technology (A) in collaboration with Coding Ninjas, Hyderabad – 500 075, Telangana, India
5. Attended One Week Faculty Development Programme on "Recent Trends in IoT" from 06 June – 10 June 2022 at , Mahatma Gandhi Institute of Technology, Hyderabad.
6. Completed 15 day SQL for Business Analytics course from 12th to 28th May 2022 organized by Turnip Innovations.
7. Organized the Technical Fest "Headstart 2022" under "Sudhee 2022" on 23rd and 24th March, 2022 at Chaitanya Bharathi Institute of Technology (A), Hyderabad.
8. Organising National Level Hands on Workshop on cyber security tools and techniques: a practical approach on 14th may 2022 at CBIT.
9. Organized One Week Online STTP on Cyber Security from 16-20 May 2022 at CBIT.
10. Organized National Level Hands on Workshop on Hunting Bug Bounties on 6th nov 2021 at, CBIT(A), Hyderabad, Telangana.
11. Organized National Level Hands on Workshop on GitHub on 23rd Oct 2021 at, CBIT(A), Hyderabad, Telangana.
12. Organized an Expert talk "cryptography for secure storage and communication: challenges and
13. research directions "on 14th October 2022 at CBIT
14. Attended Online Elementary FDP on "A Blend of Internet of Things, Cyber Security & Blockchain and Applications" from 23rd to 27th August 2021 at National Institute of Technology Silchar. Sponsored by AICTE Atal Academy.

15. Attended Online Elementary FDP on "Security and Privacy" from 9th August to 13th August 2021 at Mizoram University Sponsored by AICTE Atal Academy.
16. Organized online Five Day International Workshop on "Blockchain for Digital Transformation" from 12th – 16th August, 2021 in Department of CSE, CBIT(A), Hyderabad, Telangana.
17. Organized online Five Day International Workshop on "Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms" from 24 - 28 June, 2021 in Department of CSE, CBIT(A), Hyderabad, Telangana
18. Attended one week online FDP on Medical Image Processing and Deep Learning Technologies from 21st to 25th Sept 2020 Organized by Panimalar Institute of Technology , Sponsored by AICTE Atal Academy.
19. Attended one-week online FDP on Cyber Attacks and Digital Forensics from 20th July to 24th July 2020 organized by Mahatma Gandhi Institute of Technology.
20. Attended one-week online FDP on Advanced Data Processing using ML, ANN and DL from 13th to 17th July 2020 organized by TKR College of Engineering and Technology.
21. Attended one-week online FDP on Emerging trends in Ethical Hacking and Cyber security from 6th July to 10th July 2020 organized by Hindustan Institute of Technology.
22. Attended AICTE Sponsored Six Days Online Short Term Training Programme on Internet Of Things (Everything) – Future from 24th to 29th August 2020 organized by B S Abdur Rahman Crescent Institute of Science and Technology.
23. Attended Five days Online Short-Term Training Program (STTP) on "Machine Learning" from 27th to 31st July 2020 organized by St Joseph Institute of Technology.
24. Attended AICTE Sponsored Online Short term Training Program on Building Intelligent Applications with Deep Learning using PyTorch from 12th to 17th Oct 2020 organized by Rajalakshmi Institute of Technology.
25. Attended one week national level online FDP on Computer Network Simulation using NS2 From 10th to 14th Aug 2020 organized by Mahatma Gandhi Institute of Technology.
26. Attended one week national level online FDP on Cyber Security from 7th to 12th July 2020 organized by Mahatma Gandhi Institute of Technology.
27. Attended one week online FDP on Blockchain from 31st Aug to 4th Sept 2020 Organized by University Institute of Engineering and Technology , Sponsored by AICTE Atal Academy.
28. A One Week Online Faculty Development Program on "Outcome based Education and NBA Accreditation Process" at CBIT during 26-05-2020 to 01-06-2020.
29. A One Week Online Faculty Development Program on "Data Science" at NITTTR, Chandigarh Sponsored by AICTE Atal Academy during 25-05-2020 to 29-05-2020.
30. A One Week Online Faculty Development Program on "Artificial Intelligence" at CBIT during 22-05-2020 to 26-05-2020.
31. One day Webinar on "Corona Virus Disease Evolution and Pathogenicity "by Narayana Pharmacy College on 23-05-2020.
32. One day online workshop on "Artificial Intelligence, Machine Learning and Deep Learning "by NVIDIA on 15-05-2020.
33. "IIC Online Session" by Institution Innovation Council of MHRD Innovation cell, New Delhi during 28-04-2020 to 22-05-2020 May 2020(14 sessions).
34. Five "online leadership talk" by MHRD Innovation cell during 01-04-2020 to 31-05-2020.
35. A One Week Online Faculty Development Program on "Cyber Security "at Dr. Harassing Gour Sagar University (MP)Sponsored by AICTE Atal Academy during 18-05-2020 to 22-05-2020.

36. One Day Online Hands on Workshop on “Effective and Efficient Online Teaching in the Age of Corona “by IIT Bombay on 17-05-2020.
37. One day online Webinar on “Cyber Security-Knowledge Sharing and Road Map Careers” by Storm Overseas on 16-05-2020
38. A One Week Online Faculty Development Program on “Artificial Intelligence” by IIIT vadodara Sponsored by AICTE Atal Academy during 11-05-2020 to 15-05-2020.
39. One Day Webinar on “Image Processing using Python” by Pantec Solutions on 12-05-2020.
40. Research Academy Certificate of Completion” How to prepare your manuscript” by Elsevier on 08-05-2020.
41. 10 Days Online Faculty Development Program on “Machine Learning and AI using Python” by IIT Roorkee during 27-04-2020 to 06-06-2020.
42. Successfully Completed “Introduction to Cyber Security Tools and Cyber Attack” an online non-credit course authorized by IBM and offered through Coursera on 27-04-2020.
43. Successfully Completed “Python for Everybody” an online non-credit course authorized by University of Michigan and offered through Coursera on 21-04-2020.
44. Successfully Completed “Blockchain: Foundation and Use Cases” an online non-credit course authorized by by ConsenSys Academy and offered through Coursera on 19-04-2020.
45. Successfully Completed “AI for Everyone” an online non-credit course authorized by deeplearning.ai and offered through Coursera on 17-04-2020.
46. IEEE Certificate of Completion “Digitized Grid” by CEU IEEE continuing Education on 02-04-2020.
47. IEEE Certificate of Completion “Enterprise Blockchain for Internet of Things” by CEU IEEE continuing Education on 29-03-2020.
48. Successfully Completed NPTEL Online Certification Course on “Python for Data Science” by Swayam during August-Sept 2019.
49. Successfully Completed NPTEL Online Certification Course on “Operating System Fundamentals” by Swayam during July-Oct 2019
50. One day National Seminar on “IOT for Real World” by CBIT on 28-10-2019.
51. One day Talk and discussion on “Access to Research Process-School of Thoughts” by CBIT on 18-10-2019.
52. Two days “Tech-Tara” Event on women’s day by CBIT during 06-03-2019 to 07-03-2019.
53. Successfully Completed NPTEL Online Certification Course on “Cryptography and Network Security” by IIT Kharagpur during Jan-April 2019.
54. Three Weeks Refresher Course on "Internet of Things JNTUH Hyderabad during 03-12-2018 to 22-12-2018.
55. Successfully Completed NPTEL Online Certification Course on “Computer Networks and Internet Protocol by IIT Kharagpur during July-Oct 2018.
56. Two days National level workshop on “Interface of Statistical Analysis using R” by CBIT during 09-02-2018 to 10-02-2018.
57. Four -weeks “Orientation Course” by JNTUH HRDC during 08-05-2017 to 03-06-2017.
58. Two days International Workshop on “Big Data and Machine Learning” by CSE and MCA, CBIT during 27-03-2017 to 28-03-2017.
59. Three days National level workshop on “Machine Learning using Python” JNTUH, College of Engineering, Jagtial during 24-03-2017 to 26-03-2017.
60. A One Week Faculty Development Program on “Data Analytics using R” by CBIT during 20-03-2017 to 25-03-2017.
61. Two days National Workshop on “Privacy Preserving and ICT: Research Ideas “by CBIT during 02-03-2017 to 03-03-2017.

62. A One Week Faculty Development Program on “Emerging trends, Issues and Challenges in Big Data and Cloud Computing” by CBIT during 20-02-2017 to 25-02- 2017.

Details of Journal Publications/
Conferences (National and
International)

International /National Conferences

1. Presented a paper entitled “Authchain-Lightweight Authentication Scheme at edge layer for Internet of Things” on “3rd Research Day” at Chaitanya Bharathi Institute of Technology (A), Hyderabad, on 28-08- 2021
2. Presented a paper titled “Essentials of Blockchain Technology for Modern World Applications”, International Conference on Research in Science, Engineering, Technology and Management-2020, Telangana, India, 28-Dec-2020.
3. Presented a paper titled “Diabetes Diagnosis Prediction Using Ensemble Approach”, 4th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2019), at Ranchi, 11-12th May-2019.
4. Presented a paper titled " Lightweight Privacy Preserving Framework at Edge Layer in IoT" in FICTA-2022 held at National Institute of Technology Mizoram, India in June 18 2022.

International /National Journals

1. S. Gupta and K. Agrawal, "NoSQL Cloud based Bigdata technologies for efficient performance evaluation in the modern era," 2022 14th International Conference on Computational Intelligence and Communication Networks (CICN), Al-Khobar, Saudi Arabia, 2022, pp. 350-354, doi: 10.1109/CICN56167.2022.10008325
2. Kavita Agrawal Assistant Professor, Vimala Manohara Ruth , Kedarnath Chaturvedula, Vishal Chandra Jongoni,(2021) “Analysis of Human Traits Using Machine Learning”, International Journal of Creative Research Thoughts(IJCRT), Volume 9, Issue 6, ISSN:2320-2882, 2021.
3. P. Vimala Manohar Ruth, Kavitha Agarwal, Dr.Y.Rama Devi, Sravya Gudipelly, Vaishnavi Kubeer, “Handwritten Telugu Vowel Character Prediction Using Convolution Neural Network”, Journal of Huazhong University of Science and Technology, Volume:50, Issue:6, 2021.
4. Kavita Agrawal (2021) “Essentials of blockchain technology for modern world applications”, Materials Today: Proceedings, Elsevier, <https://doi.org/10.1016/j.matpr.2021.01.707>
5. Gupta S, Ramadevi Y, Agarwal K, Shekhar Yadav C. (2021). COVID pandemic analysis using AutoRegression-Based moving average method. Epub ahead of print. PMID: 33654660; PMCID: PMC7906013
6. Kavita Agrawal, Eshwar Chaitanya G, Ramesh M (2020) “Analysis and Prevention of Road Accidents Using Machine Learning”, Advanced Science Letters UGC CARE, volume 26, number 6, pp.702-708.
7. Kavita Agrawal, K. Maldanna, G. Nalin Raj (2020) “Taxi Demand Prediction System Using Machine Learning”, Mukta Shabd Journal UGC CARE, volume IX, issue VI, pp 721-729.
8. Kavita Agrawal, P.Harika Santhoshi , T.Snigdha Priya (2020)“Early Diagnosis And Prevention Of Diabetes Using Data Mining Techniques”, Alochana Chakra journal, UGC CARE, volume IX, issue 5,pp.4821-4836.
9. Kavita Agrawal, Sai Avinash Bommakanti , Sai Anish Chinthalapudi, Ithesh Muppaneni(2019) “Face Recognition Platform with Attendance System as Use Case”, International Journal of Emerging Technologies and Innovative Research Volume 6 Issue 6 , pp.541-551
10. Kavita Agrawal, Vimala Manohara Ruth P., Nandini Y., Sravani K.(2018), “Analysis of Road Accident Locations Using DBSCAN Algorithm” in International Journal of Scientific Research in Science and Technology (IJSRST) Volume 4 Issue 8 pp.462-467.
11. Vimala Manohara Ruth P., Kavita Agrawal, Sumanth Paruchuri, Vamshi Krishna Gundu(2018), “Performance Evaluation and Prevention of Blackhole attack in MANET” International Journal of Scientific Research in Science and Technology (IJSRST) Volume 4, Issue 8 pp. 494-499.