Personal Information

Name	Ms. Deepa Kumari
Years of Experience	Teaching: 1.5 Years Research: 6 months
Email Id	deepa.k@bvrithyderabad.edu.in
Areas of Specialization	Artificial Intelligence, Machine Learning, Blockchain, Bioinformatics

Educational Qualifications

Doctoral Degree	Ph.D. (Thesis submitted)	Computer Science and Information System
PG Degree	M.Tech.	Computer Science and Engineering
UG Degree	B.E.	Computer Science and Engineering

Papers Published

International Journal Publications

1. **Deepa Kumari**, Abhirath Singh Parmar, Harshvadhan Sunil Goyal, Kushal Mishra, and SubhrakantaPanda. “Healthrec-chain: Patient-centric blockchainenabled ipfs for privacy-preserving scalablehealth data.” Computer Networks, page 110223. Elsevier (SCI, Impact Factor=5.6), 2024.

2. **Deepa Kumari**, Pavan Kumar Reddy Yannam, Isha Nilesh Gohel, Mutyala Venkata Sai SubhashNaidu, Yash Arora, BSAS Rajita, Subhrakanta Panda, and Jabez Christopher. “Computationalmodel for breast cancer diagnosis using HFSE framework.” Biomedical Signal Processing andControl, volume 86, page 105121. Elsevier (SCIE, Impact Factor=5.1), 2023.

3. **Deepa Kumari**, SK Vyshnavi, Rupsa Dhar, BSAS Rajita, Subhrakanta Panda, and Jabez Christopher. “Smart GAN: a smart generative adversarial network for limited imbalanced dataset.” TheJournal of Supercomputing, pages 1–42. Springer, (SCI, Impact Factor=2.4), 2024.

4. **Deepa Kumari**, Swati Sharma, Manan Chawla, and Subhrakanta Panda. “A manifesto forhealthcare based blockchain: Research directions for the future generation.” Journal of theInstitution of Engineers: Series B, pages 1–22. Springer, 2024.

5. BSAS Rajita, Samarth Soni, **Deepa Kumari**, and Subhrakanta Panda. “An empirical frameworkfor event prediction in massive datasets.” International Journal of System Assurance Engineeringand Management, pages 1–22. Springer (SCIE, Impact factor=2), 2024.

6. BSAS Rajita, Mrinalini Shukla, **Deepa Kumari**, and Subhrakanta Panda. “An experimental analysisof community detection algorithms on a temporally evolving dataset.” Recommender Systems,pages 23–70. CRC Press (Scopus), 2021.

7. Raina**, Deepa Kumari**,Shamik Tiwari, and Deepika Gupta. “An approach for image noiseidentification using minimum distance classifier.” International Journal of Scientific & EngineeringResearch (Impact factor=1.1), volume 3, pages 1–4, 2012.

8. Deepika Gupta, Ajay Kumar Singh, **Deepa Kumari**,“Hybrid feature-based natural sceneclassification using neural network.” International Journal of Computer Applications, volume 975,page 8887. Foundation of Computer Science, 2445th Avenue, # 1526, New York (Scopus, Impactfactor=0.72), 2012.

9. **Deepa Kumari**, Jahnavi Somavarapu, “Intelligent Prediction of accidents forDomotics”, International Journal of Computer Science and Information Security(IJCSIS) ISSN1947-5500 Vol. 14 ICETCSE 2016.

10. **Deepa Kumari**, Shamik Tiwari, Raina, Deepika Gupta, “Enhanced MilitarySecurity via Robot Vision Implementation Using Moving Object Detectionand Classification Methods”, IOSR Journal of Engineering, Vol. 2 Issue 1, Jan.2012, pp.162-165.

11. Deepa Kumari, Shamik Tiwari, Raina, Deepika Gupta, “Analysis on AdaptiveMoving Objects via Robot Vision Implementations by Detection Techniques”, International Journal of Scientific and Engineering Research (Impact factor=1.1), Volume3, Issue 4, April 2012 Edition.

International Conference Publications

1. **Deepa Kumari**. “A study on drug similarity measures for predicting drug-drug interactions andseverity using machine learning techniques.” In Proceedings of the 16th International Conferenceon Agents and Artificial Intelligence - Volume 3: ICAART, pages 72–79. INSTICC, SciTePress(CORE-B), 2024.

2. **Deepa Kumari**, Chirag Jain, Aman Saxena, Pranjal Gupta, AshayNetke, and SubhrakantaPanda. “An experimental analysis of benchmarking tools for smart contract-based blockchainapplication.” In International Congress on Information and Communication Technology, pages309–319. Springer (SCOPUS), 2023.

3. **Deepa Kumari**, BSAS Rajita, and Subhrakanta Panda. “Blockchain: A survey on healthcareperspective and its challenges.” Information and Communication Technology for IntelligentSystems: Proceedings of ICTIS 2020, Volume 1, pages 111–119. Springer (SCOPUS), 2021.

4. BSAS Rajita, **Deepa Kumari**, and Subhrakanta Panda. “A comparative analysis of communitydetection methods in massive datasets.” In Modelling, Simulation and Intelligent Computing:Proceedings of MoSICom 2020, pages 174–183. Springer (SCOPUS), 2020.

5. BSAS Rajita, Yaganti Bhanu, Pritish Prashant Moharir, **Deepa Kumari**, Subhrakanta Panda, “An Effective Prediction of Events in Social Networks using Influence Score of Communities,”In 13th International Conference on Data Science, Technology and Applications, 2024) (CORE-B).

6. **Deepa Kumari**, Raina and Deepika Gupta, "Energy Conservation usingTelepointer", International Conference on Information and Network TechnologyIPCSIT Vol. 4(2011) IACSIT Press, Singapore. pp. 233-237.

National Conference Publications

1. **Deepa Kumari**, Raina, "Moving object classification through Bionics Microrobots acting as water strider", In National conf. on Advances in RecentTechnologies in Communication & Computing (ARTCom-2011).

Books &Book Chapter

1. **Deepa Kumari**, BSAS Rajita, Medindrao Raja Sekhar, Ritika Garg, and Subhrakanta Panda."Predictive Modeling of Anthropomorphic Gamifying Blockchain-Enabled Transitional HealthcareSystem." Machine Learning Approach for Cloud Data Analytics in IoT, pages 461–490. WileyOnline Library (Scopus), 2021

FDP's Attended

- Attended a two-week FDP on "Recent Trends in Wireless Communications andEvolution of Simulation Tools" at VNR VJIET from 11 May 2015 to 23 May2015.

Professional Memberships:

- Reviewer for Bentham Science's Journal of *Current Medical Imaging*
- Reviewer for The *Journal of Supercomputing (Springer).*
- Reviewer for the Journal of *Concurrency and Computation: Practice and Experience (Wiley).*

Certifications

- Selected for ACM India Grad Cohort 2023 organized by IISc and IIIT Bangalorein association with ACM India Council on 7-8 July 2023.
- Selected for attending the Google Research India Graduate Symposium, held from April 7-10,2021.
- Presented paper titled "*A Study on Drug Similarity Measures for Predicting Drug—Drug Interactions and Severity Using Machine Learning Techniques*" at the 16th InternationalConference on Agents and Artificial Intelligence (held between 24-26 February2024) organizedby SCITEPRESS – Science and Technology Publications, Lda, Rome, Italy.
- Presented Poster Competition on Vidhwanotsav, 2023 held in BITS Pilani, Hyderabad Campus.
- Presented poster on the event: C-REx 2024: Computer Science Research Exploration on OneDay Research Exploration Symposium on 21st April 2023.
- Presented paper titled as "*An Experimental Analysis of Benchmarking Tools for Smart Contract-Based Blockchain Application*" in the 8th International Congress on Informationand Communication Technology (held between 20-23 February, 2023) , organized by GlobalKnowledge Research Foundation, London, UK.

- Presented paper titled "*Blockchain: A Survey on Healthcare Perspective and Its Challenges*" in the 4th International Conference on Information and Communication Technology forIntelligent Systems held during 15-16 May 2020.
- Participated in the 13th National Workshop on Recent Trends in Software Testing (RTST-2020)organized by NIT Warangal from 21st - 25th December 2020.
- Successfully completed Instructor-led-level online 5-day Faculty Development Program onBlockchain Technology and Its Application from 25th May to 29th May 2020 organized byEsoir Business Solution LLP (EduxLab).
- Selected as a Committee Head in Hospitality and project demos inCORDINAZO'12, annual Tech Fest of MITS Lakshmangarh.
- Research Internship in INFOTECH on 3D RSS Aggregator between Aug2009 and Dec2009.
- Participated and won in three categories at ZENITH, an intra-state techno fest at B.E.level.
- Participated and won in five categories at M-PULSE, a techno fest organized by PESModern College, Pune at B.E. level.
- Scored 1st rank in district at "Science Olympiad" event held at international level in2005-06.

Any Other Achievements

- UGC-CSIR, NET Qualified with percentile score 99.28%, Roll number:TL01515228, in subject:COMPUTER SCIENCE AND APPLICATIONS in 2019.
- TS-SET Qualified, Hall Ticket No.: D0104040096 in subject: COMPUTER SCIENCE ANDAPPLICATIONS in 2019.