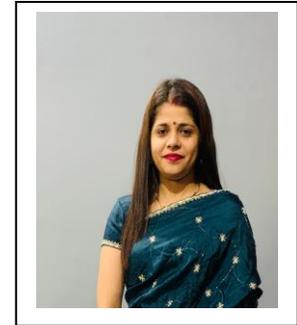


Personal Information

Name	Dr. Akansha Tyagi
Years of Experience	Teaching: 4 years Research: Industry:
Email Id	Akansha.t@bvrithyderabad.edu.in
Areas of Specialization	Computer science & engineering



Date of Joining:23/01/2023

Educational Qualifications

Doctoral Degree	Ph.D.	2023
PG Degree	M.Tech.(CSE)	78% (2015 - 2017)
UG Degree	B.Tech.(CSE)	77% (2009-2013)

Papers Published

International Journal Publications

1. Tyagi, A., Sandhya, "Hybrid FAST-SIFT-CNN (HFSC) approach for Vision-Based Indian Sign Language Recognition". International Journal of Computing and Digital System, 2021, vol 11, pp. 1217-1227. [Scopus]
2. Tyagi, A., Sandhya, "Hybrid FiST_CNN approach for feature extraction for vision-based indian sign language recognition". Int. Arab J. Inf. Technol., 2022, 19(3), 403-411. [Scopus][SCI]
3. Tyagi, Akansha, and Sandhya Bansal. "Hand Anatomy and Neural Network-Based Recognition for Sign Language." IETE Journal of Research (2023): 1-13.[Scopus]

International Conference Publications

1. Tyagi, A., Sandhya, "Feature Extraction Technique for Vision-Based Indian Sign Language Recognition System: A Review". Computational Methods and Data Engineering. Advances in Intelligent Systems and Computing, 2021, vol 1227, pp. 39-53, Springer, Singapore. [Scopus]
2. A. Tyagi, Sandhya and A. Kashyap, "Comparative Analysis of Feature Detection and Extraction Techniques for Vision-based ISLR system". 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), 2020, pp. 515-520. [Scopus]
3. Tyagi, A., Sandhya, "Sign Language Recognition Using Hand Mark Analysis for Vision-Based System (HMASL)". Emergent Converging Technologies and Biomedical Systems. Lecture Notes in Electrical Engineering, 2022, vol 841, pp. 431-445, Springer, Singapore. [Scopus]
4. A.Tyagi and S. Bansal, "Recognition of Indian Sign Language using Hand geometry and Neural Network," 2022 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS), Greater Noida, India, 2022, pp. 817-822.[Scopus]
5. Tyagi, A., Bansal, S. (2023). Hand Anatomy and Neural Network Based Recognition of Isolated and Real-Life Words of Indian Sign Language. In: Sharma, H., Saha, A.K., Prasad,

M. (eds) Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2022). ICIVC 2022. Proceedings in Adaptation, Learning and Optimization, vol 17. Springer, Cham. [Scopus]

Publications:

International Level:

- No. of International conferences : **5**
- No. of International Journal : **3**

National Level:

- No. of National conferences : **0**

FDP's Attended / Conducted

1. Advanced Research Methodology, REST Society for Research International (RSRI),
2. Strategies for Searching IEEE Xplore, IQAC CELL, MMDU & M.M. Institute of Computer Technology & Business Management (MCA)
3. ATAL FDP on Cyber Security Vulnerabilities & Safeguards, AICTE, NITTTR Chandigarh
4. NACC Assessment & Accreditation Process for Health Science Colleges, NAAC.
5. STTP on Multi Criteria Decision Making, REST Society for Research International (RSRI)
6. Concrete properties testing methodology and its comparative significance, The Ramco Cements Limited,
7. STTP on Data Analysis in MATLAB, REST Society for Research International (RSRI)
8. ATAL FDP on Artificial Intelligence organized by Jaypee Institute of Information Technology.
9. ATAL FDP on Data Science organized by University College of Engineering (Kakatiya University)
10. ATAL FDP on Machine Learning and Computer Vision organized by Vignans Foundation for Science Technology and Research University

Webinars:

1. R Programming, MMIT&BM, MMDU in association with Spoken Tutorial, IIT, Bombay
2. MS Excel Analytics, Narappa Reddy. H., Founder, Edu-Skill Harvest Institute

Workshops:

1. Online Research Methodolgy Workshop, REST Society for Research International (RSRI)
2. Multi Criteria Decision Making, REST Society for Research International (RSRI)
3. Basic Online Research Methodolgy Workshop, REST Society for Research International (RSRI)
4. Basic Optimization Technology Workshop, REST Society for Research International (RSRI)

Certifications:

1. "Introduction to Data Science in Python" By Coursera in May 2021.
2. "Applied Plotting, Charting & Data Representation in Python" By Coursera in July 2021.
3. "Using Python to Interact with the Operating System" By Google in September 2021.
4. "Python Package Development" By Udemy in September 2021.
5. "Analyzing Video with OpenCV and NumPy" By Coursera in September 2021.
6. "Using Python to Access Web Data" by University of Michigan in October 2021.
7. "Hand Gesture Recognition using Tensorflow and keras" by Coursera in October 2021.
8. "COVID19 Data Analysis Using Python" By Coursera in October 2021.
9. "Neural Networks and Deep Learning" By DeepLearning.AI in Nov 2021.
10. "Emotion AI: Facial key-points Detection" by Coursera in March 2022.
11. "Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and optimization" By DeepLearning.AI in January 2023.
12. "Python Data Structures" by Coursera in April 2023.
13. "Visualizing Filters of a CNN using TensorFlow" by Coursera in August 2023.
14. "Building a unique NLP project: 1984 book vs 1984 album" by Coursera in June 2024.