Annexure -23

Faculty Profile: Mrs. Divya U H

Mrs. Divya U H
Assistant Professor, Department of CSE
East Point College of Engineering & Technology

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Mrs. Divya U H is an Assistant Professor in the Department of Computer Science and Engineering at East Point College of Engineering and Technology (EPCET), Bengaluru. She earned her B.E. in Computer Science and Engineering from KVG College of Engineering, Sullia, and her M.Tech from Dr. Ambedkar Institute of Technology, Bengaluru. She is currently pursuing her Ph.D. under Visvesvaraya Technological University (VTU), specializing in Computer Vision and Machine Learning.

With over 17 years of teaching experience, Prof. Divya has taught a wide range of undergraduate courses, including Programming with C, C++, Java, and Python, Design and Analysis of Algorithms, Theory of Computation, Compiler Design, Database Management Systems, System Software, Machine Learning, and Web Technology Laboratory.

She is committed to continuous learning and has completed more than 20 certification courses from reputed platforms such as Coursera, NPTEL, Oracle Academy, Infosys, Udemy, and Google. She is also a certified Python Programmer from Infosys.

Mrs. Divya is actively involved in research, with publications in SCIE/Web of Science-indexed journals, Scopus-indexed journals, and international conferences. Her research interests include Computer Vision, Deep Learning, Human Activity Recognition, and Intelligent Video Surveillance Systems.

In addition to teaching and research, she has served as Project Coordinator, NBA Coordinator, and NAAC Criterion 2 Coordinator, contributing significantly to curriculum development, accreditation activities, and student mentoring.

Publications:

- Published SCIE indexed journal paper: *Enhanced Transfer Learning-Based CNN for Abnormal Human Activity Detection in Video Surveillance Using Spatial-Temporal Features.* Cybernetics and Systems, Taylor & Francis, 2025. DOI: 10.1080/01969722.2025.2521708, Indexing: SCI Expanded (SCIE), Web of Science, Scopus, Quartile: Q3
- Published Scopus indexed journal paper: *Video Anomaly Classification Using Convolutional Neural Network with Bidirectional Long Short-Term Memory Using Spatio-temporal Adaptive Transformer.* Journal of Image and Graphics, Volume 14, Issue 2, 2026. DOI: 10.18178/joig.14.2.278-293, Scopus-Q3.
- Published a peer-reviewed journal paper: *Explainable AI for Abnormal Human Activity Detection in Surveillance Videos: A Review*. International Journal of Innovative Research in Information Security (IJIRIS), Volume 10, Issue 4, May 2024. doi.org/10.26562/IJIRIS.2024.V1004.18
- Published a Survey Paper on "Detection of Abnormal Human Activities in Surveillance Video-A Survey" in Journal of Interdisciplinary Cycle Research -JICR an UGC approved Journal, Volume XII, Issue VIII, August-2020.
- Published a Survey paper on " Detection of Malpractices in Examination Surveillance Video", in LINO Journal, Volume 11, Issue 01-2021.

- Published a Paper on " Analysis and Prediction of Groundwater Level using Machine Learning Models", in International Journal of All Research Education and Scientific Methods-UGC Journal, Volume 11, Issue 6, June 2023.
- Published a Paper on "Blockchain Based Decentralized Social media to Prevent False Copyright Infringement", in the International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 9, Issue 9, July -August 2023.

Conferences:

- Presented a Paper on "Detection of Abnormal Human Activities in Surveillance Video-A Survey" in the international e-Conference on Advanced Research in Science, Engineering, Technology and Management (ICARSETM 2020) on 24th and 25th July 2020, Organized by Shadan Womens college of Engineering and Technology, Hyderabad.
- Presented a Paper on "A survey on Detection of Malpractices in Examination Surveillance Video" at International Conference on Multidisciplinary technologies and Challenges in Industry 4.0(ICMTCI-4.0) on digital platform, organized by East Point College of Engineering and Technology, Bangalore, held on 18th-19th September 2020.
- Presented a research paper on "Blockchain Based Decentralized Social media to Prevent False Copyright Infringement" in the national Conference on Research Advances of Computational Intelligence Techniques in Science, Engineering and Technology-NCRACITSET-2023 held on 22nd July 2023, organized by Department of CSE, EPCET, Bangalore.

Patents:

- Abnormal Human Activity Recognition from Surveillance Video (Published, 2024, Application No. 202441006447)
- A Multi-Camera Correlated, Confidence-Balanced Edge-Fog-Cloud Surveillance System for Real-Time False Alarm Reduction, Adaptive Threshold Governance, and Latency Optimization (Published, 2026, Application No. 202641067903)

Book/ Book chapters:

"Artificial Intelligence: A Modern Approach", BR Publications, 11 Feb 2026 - Computers - 279 pages. https://books.google.co.in/books?id=0q7FEQAAQBAJ., by Dr. Smita Rani Sahu, Mrs. Divya U H, Mrs. Rashmi T V, Ms. Pendem Swetha,

Achievements / Awards / Recognitions

- Completed NPTEL Online Certification on Database Management System Jan-Mar 2020
- Coursera Certificate on "Machine Learning for All", Apr 23, 2022
- Coursera Certificate on "AI for Everyone", Aug 11, 2020
- Coursera certificate on "Python Basics", Sep 14, 2020
- Coursera certificate on " Programming for Everybody (Getting started with Python), Jul 29, 2020
- Coursera certificate on " Computer Vision-Object Detection with OpenCV and Python", Mar 12, 2021
- Oracle Academy Certification on Database Foundations, 5th April 2021
- Oracle Academy Certification on Database Design, 2nd April 2021
- Oracle Academy Certification on Artificial Intelligence with Machine Learning in Java, 23rd April 2021
- GUVI certificate on "Step into Robotic Process Automation", May 30, 2020
- Infosys Springboard course on" Introduction to Python", on June 19th 2022
- Infosys Springboard course on" Programming Fundamentals using Python-Part 1", on June 18th 2022
- Infosys Springboard course on" Programming Fundamentals using Python-Part 2, on June 22nd 2022
- Achieved the "Python Programmer" certification from Infosys on June 30, 2022
- Udemy course on " Master Computer Vision OpenCV4 in Python with Deep Learning, on May 30, 2021
- Udemy Course on " Learn to build real time object detection in video", 1st July 2023

- Google-Coursera course on " Prepare Data for Exploration", Aug 22, 2023
- Google-Coursera course on " Ask Questions to Make Data-Driven Decisions", Aug 2 2023
- Google-Coursera course on " Foundations: Data, Data everywhere", July 19 2023 Udemy Course on " Object Detection with Tensorflow -Fast track Course", Sept 3, 2023
- Completed NPTEL course on" Python for Data Science" with a consolidated score of 71% during July to August 2023.
- Completed the course on "Introduction to Artificial Intelligence", by Infosys Springboard on November 2, 2023.
- Completed the course on "Computer Vision 101", by Infosys Springboard, on December 8, 2023.
- Completed Infosys SpringBoard certification course on "Hands-on computer Vision with OpenCV 4, Keras, and TensorFlow 2" on March 9, 2024.
- Completed Infosys course on "An Introduction to Generative AI" on August 28,2024.
- Completed NPTEL 12-week course on "Machine Learning and Deep Learning- Fundamentals and Applications", with consolidated score of 72%, during the period July to October 2025.
- Successfully completed the NPTEL course on" Computer Vision and Image Processing – Fundamentals and Applications" with consolidated score of 76% during Jan-Apr 2026.
  Completed Snowpro Associate: Platform by Snowflake on May 2026.

- IEEE Member
- Certified Python Programmer from Infosys Springboard