FACULTY PROFILE

Name: Megha Agarwal

Designation: Assistant Professor

E_Mail: meghaa@srmist.edu.in

Professional Qualification:

➢ **Pursuing Ph.D.** in Computer Science from **SRM Institute of Science and Technology, Delhi NCR Campus**, from July 2020.

➢ **M. Tech.** in Computer Science and Engineering from SRM University with 8.7 CGPA in 2011 with 1st Division and distinction.

➢ **B. Tech.** in Computer Science from **Uttar Pradesh Technical University, Lucknow** in 2005-2009 with 1stDivision.

Publications (Journals & Conferences):

➢ Research Paper Entitled **"Image Classification using disease classifier model for doctors and hospitals."**AIP Conference Proceedings. Vol. 2481. No. 1. AIP Publishing, **2022**. **(Scopus)**

➢ Research Paper Entitled "**Near lossless image compression using discrete cosine transformation and principal component analysis.**" *AIP Conference Proceedings*. Vol. 2481. No. 1. AIP Publishing, **2022.**(Scopus)

➢ Research Paper Entitled **"Monitoring Social Distancing for Industries and in Public Areas Using Machine Learning."** Applications of Advanced Optimization Techniques in Industrial Engineering. CRC Press, **2022. 181-190. (Scopus)**

➢ Research Paper Entitled **"Handwritten Character Recognition using Neural Network and Tensor Flow"** published in "International Journal of Innovative Technology and Exploring Engineering*", I*ssue 6S4,*VOLUME 8 (2019), PP.* **2278-**

307. *(Scopus)*

➢ Research Paper Entitled **"Comparative study of Image Enhancement Techniques using Histogram Equalization on degraded images**" published in "International Journal of Engineering Technology*", VOLUME* 7(2.8) *2 (2018),PP. **468-471.**

➢ Research Paper Entitled **"Home automation using voice recognization and arduino"** accepted for Publication in "International Journal of Recent Trends in Engineering and Research,*", VOLUME 7 ISSUE 1 (2016),PP.1-6.*

➢ Research Paper Entitled **"Effective Robust Algorithms for Motion Estimation from Sequence of Images"** published in "IJTR*", VOLUME 4 (2015), PP. 10-16.*

➢ Research Paper Entitled **"Securing WMN using hybrid Honeypot System"** published in "*IJDPS", VOLUME 2, ISSUE 3(2012), PP. 29-34.*

Conferences

➢ Presented a Research Paper Entitled **"The Enhancement in Road Safety using Different Image Detection and Recognition Techniques:- A State Of Art."** 2023 International Conference on Device Intelligence, Computing and Communication Technologies (DICCT). **IEEE, 2023.**

➢ Presented a Research Paper Entitled "**A Review on Enhancement of Road Safety by detecting Traffic Signs**" at the 2nd International Conference on Recent Advances in Computational Mathematics & Engineering, at **B K Birla Institute of Engineering & Technology, Pilani (2022).**

➢ Presented a Research Paper Entitled **"Image Classification using disease classifier model for doctors and hospitals." AIP Conference Proceedings. Vol. 2481. No. 1. AIP Publishing, 2022.**

➢ Presented a Research Paper Entitled "**Near lossless image compression using discrete cosine transformation and principal component analysis.**" *AIP Conference Proceedings.* Vol. 2481. No. 1. AIP Publishing, 2022.

➢ Presented a Research Paper Entitled **"Huffman-based Lossless Compression for Dental X-ray images"** at COMMUNE Conference on Advancements in Communication, Computing and Signal Processing conducted by GBTU University, Greater Noida in 2011.

Awards and Achievements

➢ Qualified **UGC-NET** Examination in November,2020.
➢ Certified in "**Introduction to programming in C**" from NPTEL.
➢ Certified in "**Database Management Systems**" from NPTEL.

Workshops/Seminars/FDPs

- Faculty Development Programme on Paper and Thesis Drafting Using Latex Environment held at CMRIT Bengaluru from 14th – 18th February 2022
- Faculty Development Programme on Machine Learning and Computer Vision held at Raj Kumar Goel Institute of Technology, Ghaziabad from 4th – 9th September 2022
- Faculty Development Programme on IoT and Wearable Devices for Smart City Infrastructure held at SRM Institute of Science and Technology, Delhi-NCR Campus from 20th – 25th June 2022
- Faculty Development Programme on Advanced Technologies for Societal Changes: A 360-degree view in association with AICTE Training and Learning Academy (ATAL) held at University of Petroleum and Energy Studies, Dehradun from 22nd – 26th November 2021
- Faculty Development Programme on Smart Cities in association with AICTE Training and Learning Academy (ATAL) held at Punjab Engineering College,Chandigarh from 24th – 28th August 2020.
- Faculty Development Programme on Applications of IOT held at National Institute of Technical Teachers Training and Research(NITTTR), Chandigarh from 16th – 20th June 2020.
- One Week Short Term Training Programme on Data Science and Learning Systems for Engineering Research and Design jointly Organized by National Institute of Technology, Kurukshetra and Engineering College of Bikaner, Bikaner, from 24th -30th June, 2020, under TEQIP-III: Mentoring/Twinning System.
- A Multi-Disciplinary Faculty Development Programme Series, ERUDITIA held at SRMInstitute of Science & Technology, NCR Campus from 12th -23rd June 2018.
- Short Term Training Programme on Virtualization Technology using VMware in association with ISTE held at SRM University, NCR Campus from 19th-24th May 2014.
- Webinar on Artificial Intelligence and Machine Learning organized by Jayawant Institute of Management Studies, Maharashtra from 3rd -5th June,2020.
- Webinar on Relevance of AI in Covid-19 organized by Raj Kumar Garg Institute of Technology in association with ALTTC on 16th June 2020

Work Experience:

- Worked as an Assistant Professor in the Department of Computer Science at SRM INSTITUTE OF SCIENCE AND TECHNOLOGY from January 2011 to present.

Professional Memberships:

- ➢ Indian Society for Technical Education (ISTE), India, Membership Number LM 93611
- ➢ International Association of Engineers (IAENG), Hong Kong, Membership Number147630.
- ➢ International Economics Development Research Center (IERDC), India, Membership Number 90080848.