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Designation		Assistant Professor				
Department		Computer Science				
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Education		PhD, MS (Software Systems), B.E (Computer Science), UGC-NET				

Subject	Institution	Details
Ph.D in Computer Science	University of Delhi.	
MS (Software Systems)	BITS Pilani	First division
B.E (Computer Science)	Rajasthan University	First division with Distinction.

Research Interests/ Specialization
Information Security, Artificial Intelligence, Steganalysis, Generative AI, Deep Learning Techniques, Image Analysis.
Teaching Experience
13+ Years

Publications:

Research Papers in Journals

1. Singhal, A., & Bedi, P. (2021). Multi-class blind steganalysis using deep residual networks. Multimedia Tools and Applications, 80(9), 13931–13956. https://doi.org/10.1007/s11042-020-10353-2 (Publisher Springer, Impact Factor: 2.57, Scopus: Indexed)
2. Bedi, P., & Singhal, A. (2022). Estimating cover image for Universal payload region detection in Stego Images. Journal of King Saud University - Computer and Information Sciences. https://doi.org/10.1016/J.JKSUCI.2022.01.010 (Publisher Elsevier, Impact Factor: 8.839, Scopus: Indexed)
3. Bedi, P., Singhal, A. & Bhasin, V. (2023) Deep learning based active image steganalysis: a review. International Journal of System Assurance Engineering and Management. https://doi.org/10.1007/s13198-023-02203-9 (Publisher Springer, Impact Factor: 2.0, Scopus: Indexed)
4. Singhal A.& Bedi P. (2024) USteg-DSE: Universal Quantitative Steganalysis framework using DenseNet merged with Squeeze & Excitation Net. Signal Processing: Image Communication. https://doi.org/10.1016/j.image.2024.117171 (Publisher Elsevier, Impact Factor: 3.4, Scopus: Indexed).

Participation in International Conferences/Workshops:

1. Singhal, A., & Bedi, P. (2022). Universal Quantitative Steganalysis Using Deep Residual Networks. International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, 465–475. https://doi.org/10.1007/978-981-16-3071-2_37 (Scopus Indexed)
2. Singhal, A., & Bedi, P. (2020). Blind Quantitative Steganalysis Using CNN–Long Short-Term Memory Architecture. Strategic System Assurance and Business Analytics. Asset Analytics (Performance and Safety Management). , 175–186. https://doi.org/10.1007/978-981-15-3647-2_14 (Scopus Indexed)
3. Singhal, A., & Bedi, P. (2018). Blind Quantitative Steganalysis using SVD Features. 2018 International Conference on Advances in Computing, Communications and Informatics, ICACCI 2018, 369–374. https://doi.org/10.1109/ICACCI.2018.8554947 (Scopus Indexed)
4. Singhal, A., & Bedi, P. (2016). Local binary pattern operator based steganography in wavelet domain. 2016 International Conference on Advances in Computing, Communications and Informatics, ICACCI 2016, 826–831. https://doi.org/10.1109/ICACCI.2016.7732148 (Scopus Indexed)
5. Singhal, A., & Bedi, P. (2015). Steganography using cuckoo optimized wavelet coefficients. ACM International Conference Proceeding Series, 10-13-August, 365–370. https://doi.org/10.1145/2791405.2791500 (Scopus Indexed)

Other Responsibilities:

1. Member, **Admission Committee** for the Academic years – 2020 – 2021
   2021 – 2022; 2022-23; 2023 -24
2. Member, **Medical Committee** for the Academic years – 2023-24
3. Member, **NIRF Committee** for the academic Year – 2021- 22; 2022-23; 2023-24
4. Member, **College Website Committee** for the Academic Year 2021 – 2022; 2022 - 23

5. Member, **Examinations Committee** for the Academic Year 2021 – 2023
6. Member, **Alumni Committee** for the Academic year 2021-22
7. Member, **IQAC SSR Committee** for the Academic year 2021-22;2022-2023