Dr. Rajat Singh

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Education

- B.Sc. (Hons.) with distinction in Forensic Science from Bundelkhand University, Jhansi.
- M.Sc. in Forensic Science (Gold Medalist) from Dr. Harisingh Gour Vishwavidyalaya, Sagar.
- Qualified UGC NET-JRF 2020 in Forensic Science.
- Ph.D. from Gurukula Kangri (Deemed to be University), Haridwar on Cybercrime Awareness, Online Privacy Concern and Cyber Security Behaviour as Predictors of Cybercrime Victimisation among University Students.
- Qualified FACT PLUS in Cyber Forensics, 2022 & Forensic Ballistics, 2024.
- Qualified FACT Forensic Psychology, 2024.

Experience

- Teaching Experience, October 2021- October 2023 Teaching Assistant, Gurukula Kangri (Deemed to be University), Haridwar.
- Teaching Experience, November 2023 - 2024 Assistant Professor, Graphic Era (Deemed to be University), Dehradun.
- Teaching Experience, January 2025 - June 2025 as Assistant Professor, Invertis University, Bareilly.
- Currently working as Assistant Professor, Department of Forensic Science, Adamas University.

Publications

❖ **Research Papers:**

1. Singh, R., Kumar, A., Soni, P., & Srivastava, N. (2022). Reducing Attention Span Due To Daily Internet Usage: Meditation A Restorative Measure. *Gurukula Patrika*, *74*(2), 205-213.
2. Singh, R. & Kumar, A. (2023). Examining the Relationship Between Digital Competence and Cybercrime Victimization Among University Students. *Amnayiki*. *23*(2). 117-123.

3. Singh, R., & Kumar, A., (2023). Effect of academic streams in cybercrime victimization of university students. *Gurukula Patrika*, *74*(3-4), 205-213.

4. Srivastava, N., Soni, P., Singh, R., Sharma, A., & Kumar, A. (2024). Unraveling the Importance of Indian Classical Dances on Mental Well-Being of Performers. *International Journal of Social Science Research and Review, 7*(8), 24-41.

5. Soni, P., Srivastava, N., Singh, R., & Kumar, A. (2024). Cyber Mindfulness: A New Paradigm through the Lens of Ancient Indian Knowledge. *Vaidika Vag Jyotih*, *12*(23), 108-117.

6. Singh, R., Jain, R., Soni, P., de los Santos-Villalobos, S., Chattaraj, S., Roy, D., ... & Gaur, A. (2024). Graphing the Green Route: Enzymatic Hydrolysis in Sustainable Decomposition. *Current Research in Microbial Sciences*, 100281. https://doi.org/10.1016/j.crmicr.2024.100281

7. Singh, R., Soni, P., & Kumar, A. (2025). Cybercrime Victimization & Practice of Sharing Device Among University Students. *Indian Journal of Criminology, 52*(2), 48-56.

8. Gautam, A., Piplani, R., Soni, P., & Singh, R. (2025). Psychological Perspective of White-Collar Crimes. *International Journal of Interdisciplinary Approaches in Psychology*, *3*(1), 57-66.

9. Singh, R., Soni, P., Jain, R., Chauhan, A., Kumar, R., Gunsola, D., ... & Gaur, A. (2025). Microbial Metabolites: A Sustainable Solution for Agricultural Challenges. *Pedosphere*.

10. Kumar, R., Kamboj, N., Gunsola, D., Karmakar, R., Chattaraj, S., Gangola, S., Mudgal, B., Verma, D., Gururani, P., Rathi, N., Singh, R., Ray, A., Eswaranpillai, U., & Mitra, D. (2025). Phytonutrients: Harnessing Anti-inflammatory and Anti-cancer Potential for Health Benefits. *Current Research in Nutrition and Food Science Journal*, *13*(Special Issue Phytonutrients July 2025). https://dx.doi.org/10.12944/CRNFSJ.13.Special-Issue-July.04

11. Gaur, A., Singhal, N., Singh, R., Jain, R., Singh, N., Pant, G., ... & Malik, T. (2025). Microplastics to Metabolomics: Understanding the Environmental and Health Implications of Plastic Pollution. *Polymer Testing*, 108918. https://doi.org/10.1016/j.polymertesting.2025.108918

12. Singh, R., Gaur, A., Soni, P., Jain, R., Pant, G., Kumar, D., ... & Ansari, K. (2025). A review of biofuels and bioenergy production as a sustainable alternative:

opportunities, challenges and future perspectives. *Journal of Environmental Health Science and Engineering, 23*(2), 23. https://doi.org/10.1007/s40201-025-00946-0

13. Soni, P., Shruti, K. M., Srivastav, S., & Singh, R. (2025). From Fun to Fear: Unveiling the Nexus of Cyberbullying and Online Gaming. *International Journal of Interdisciplinary Approaches in Psychology, 3*(7), 103-112. https://doi.org/10.61113/ijiap.v3i7.1103

❖ **Book Chapters:**

1. Singh, R., Soni, P., & Kumar, A. (2022). Cyber abuse of women at the workplace. In Kumar, A., & Srivastava, N. (Eds.). (2022). *Women at work: a holistic outlook* (pp. 119-127). Global Vision Publishing House.

2. Chandran, A., Soni, P., & Singh, R. (2023). Forensic Science: The science to decode crime. In Kumar, A., Singh, R., & Soni, P. (Eds.). (2022). *Discerning Crime: Psychological, Forensic & Legal Aspects* (pp. 1-7). Asian Press Books.

3. Srivastava, N., Kumar, A., Soni, P., & Singh, R. (2023). Menstruation: A Conversation Beyond the Binary. In *Perspectives on Coping Strategies for Menstrual and Premenstrual Distress* (pp. 88-105). IGI Global.

4. Soni, P., Singh, R., & Kumar, A. (2023). Cybercrime: A potential risk to women entrepreneurs. In *New Facets of Women Entrepreneurship in India* (pp. 215-228). Current Publications.

5. Singh, R., Soni, P., & Kumar, A. (2023). Cyber Mindfulness: A contemporary era of technology & cognition. In Singh, N., & Barmola, K.C. (Eds.), *Mindfulness and Alternative Healing: The New Normal* (pp. 65-75). New Delhi Publishers.

6. Soni, P., Singh, R., & Kumar, A. (2023). Cyberbullying and cyber victimization: dreadful psychological impact on adolescents. In Dhar, S., Vyas, S., & Pandey, S. (Eds.), *Mental health & Well being: New Paradigms* (pp. 19-25). Allied Publishers.

7. Soni, P., Singh, R., & Kumar, A. (2024). Uncovering Cybercrime Against Women Through The Trails Of Indian Movie "Hacked". In Kumar, A., & Srivastava, N. (Eds.). (2022). *Minorities in India: Issues and Challenges* (pp. 351-357). Bluerose Publishers.

8. Soni, P., Singh, R., & Kumar, A. (2024). Deciphering the Psychological Implications of Social Media. In Kumar, A., & Sharma, A. (Eds.). (2024). *Mindful Media: Mental Health Challenges in the Digital Age* (pp. 351-357). Bluerose Publishers.

9. Soni, P., Singh, R., & Kumar, A. (2024). Environmental toxicants and hazardous chemicals: Paramount threat to mental health. In Chawla, M., Singh, J., & Kaushik, R.D. (Eds.). (2024). *Hazardous Chemicals: Overview, Toxicological Profile, Challenges, and Future Perspectives* (pp. 755-763). Academic Press Inc.

10. Kandpal, N., Singhal, N., Lavaniya, H. V., Jain, R., Singh, R., & Gaur, A. (2025). Utilizing Artificial Intelligence and Machine Learning for Enhanced Recycling Efforts. In *AI Technologies for Enhancing Recycling Processes* (pp. 65-82). IGI Global Scientific Publishing.

11. Singh, R., Soni, P. and Kerie, A. (2025). *Social Engineering Attacks*. In Securing the Digital Frontier (eds K. Sharma, V. Sharma, P. Nand, A.K. Sagar and G. Shrivastava). https://doi.org/10.1002/9781394268917.ch12

12. Kumari, M., Soni, P., & Singh, R. (2025). Emerging trends in cybercrime with the advancement of artificial intelligence. In *Emerging Elements of Indigenous Psychology* (pp. 147-153). Asian Press Books.

13. Trivedi, M., Girdhar, S., Bindewari, S., Singh, R., & Upadhyay, R. (2025). A Global Study on the Challenges in Implementation of Policy Framework for the Use of Energy-Efficient Technologies for Food Security. In *Energy Efficient Technologies for Food Safety, Quality, and Security* (pp. 397-428). IGI Global Scientific Publishing.

14. Bhujdhal, T., Soni, P., & Singh, R. (2025). Deepfakes and digital deception: Threats, trends, and forensic responses. In *Law, Language and Forensic Science: A synergistic approach to justice*. Modern Crime and Criminal Networks: Prevention Strategies. VLMS Publications.

15. Guleria, A., Kumar, D., Verma, S., Shruti, K. M., Soni, P., Srivastav, S., Singh, R., Koolman, L., Andjelković, S., Thakur, A., Xhemali, B., & Adeyemi, N. O. (2026). AI-assisted species identification in forensic entomology: Advancements and applications. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 1–29). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_1

16. Shruti, K. M., Soni, P., Gautam, A., Srivastav, S., Singh, R., Sierra, B. E. G., Sami, R., Gunsola, D., Rani, A., Mitra, D., Karmakar, R., Thankappan, S., & Assefa, A. (2026). AI-driven behavioral analysis of insects: Unraveling movement patterns and interactions. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 31–61). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_2

17. Srivastav, S., Singh, R., Shruti, K. M., Soni, P., Singh, R., Boutaj, H., Mahakur, B., Chattaraj, S., Korgaonkar, S. N., Ganguly, A., Koolman, L., Verma, D., & Joshi, N. (2026). AI-driven predictive modeling of necrophagous insect life cycles in forensic entomology. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 63–92). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_3

18. Shruti, K. M., Srivastav, S., Soni, P., Singh, R., Behera, N. R., Sati, S., Karmakar, R., Janeeshma, E., Fathi, A., Kumar, S., Sağlam, K., Thamarsha, A. K. A. N. W. M. R. K., Sarkar, T., & Gunsola, D. (2026). AI-driven virtual simulations for understanding insect colonization dynamics in forensic science. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 121–143). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_5

19. Srivastav, S., Soni, P., Akshita, Shruti, K. M., Rani, A., Gaur, A., Santoyo, G., Fathi, A., Mandaliya, V. B., Roy, D., Pellegrini, M., Sanchez Ballesteros, L. M., Suárez Acosta, N. K., & Singh, R. (2026). Advancements in AI-driven entomological tools for forensic investigations. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 145–171). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_6

20. Semwal, A., Chauhan, N., Singh, R., Gaur, A., Mitra, D., Koolman, L., & Adeyemi, N. O. (2026). Innovative approaches to crop protection: Harnessing integrated pest management strategies. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 185–202). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_8

21. Gore, N. S., Kulkarni, V. M., Singh, R., Gaur, A., Gunsola, D., & Thamarsha, A. K. A. N. W. M. R. K. (2026). *Guardians of the crop: Harnessing beneficial insects for sustainable agriculture*. In D. Mitra, M. Pellegrini, & B. E. G. Sierra (Eds.), *Advancements in entomology* (pp. 203–220). Springer, Singapore. https://doi.org/10.1007/978-981-95-5214-6_9

❖ **Books:**

1. Kumar, A., Singh, R., & Soni, P. (Eds.). (2023). *Discerning Crime: Psychological, Forensic & Legal Aspects*. Asian Press Books.

❖ **Patents:**

1. Graphic Era (Deemed to be University), Gaur, A., Singh, R., Jain, R., Pant, M., Kumar, D., Guleria, A., & Singh, S. (2024). *ForensicOps: Integrated crime scene management system* (Indian Patent Application No. 202411039852 A).

2. Graphic Era (Deemed to be University), Chauhan, U., Rawat, H., Gaur, A., Singh, R., Jain, R., Singh, N., & Pant, G. A. (2024). *Dual-function air and water filtration device for microplastic detection and removal and method thereof* (Indian Patent Application No. 202411057340 A).

3. Graphic Era (Deemed to be University), Graphic Era Hill University, Dehradun, Gaur, A., Singh, R., Jain, R., Kumar, D., Pant, M., & Pant, G. (2024). *Portable ultrasonic homogenizer with rechargeable power supply and method thereof* (Indian Patent Application No. 202411033880 A).

4. Graphic Era (Deemed to be University), Gaur, A., Singh, R., Jain, R., Pant, A., & Pant, G. (2024). *Authentica: AI Image Integrity and Document Verification System* (Indian Patent Application No. 202411045367 A).

5. Graphic Era (Deemed to be University), Gaur, J., Garg, N., Soni, P., Singh, A., Jain, R., Ali, S., Kumar, D., Singhal, N., & Pant, G. (2024). *An AI-Powered Predictive Tool for Identifying Cyberbullying Risks* (Indian Patent Application No. 202411074063 A).

6. Graphic Era (Deemed to be University), Gaur, J., Singh, R., Jain, R., Soni, P., Paul, M., & Pant, G. (2024). *An Automated System and Method for Post-Mortem Time Estimation Using Multispectral Imaging* (Indian Patent Application No. 202411104536 A).

7. Graphic Era (Deemed to be University), Gaur, A., Kishore, K., Singh, R., Jain, R., Singhal, N., & Pant, G. (2024). *A Locking System for Doors and Trunk Lids* (Indian Design Registration No. 432527-001).

8. Graphic Era (Deemed to be University), Gaur, A., Kishore, K., Singh, R., Jain, R., & Pant, G. (2024). *A Levelling Frame for Column Construction* (Indian Design Registration No. 432186-001).