Dr. Shweta Sankhwar

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Employment History

April 2021 – till now	🔖 **Assistant Professor** in Department of Computer Science, Maitreyi College (University of Delhi), New Delhi-110021
August 2019 – December 2019	🔖 **Assistant Professor** (Resource Person) in Department of Information Technology, School of Science and Technology, Babasaheb Bhimrao Ambedkar University, Lucknow-226025, India.

Education

2014 – 2019	🔖 **Ph.D., Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, India** in Cyber Security. Thesis title: *An Empirical Approach on Detection and Prevention of E-mail Phishing using Machine Learning Techniques.*
2012 – 2014	🔖 **M.Sc. Information Technology, Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, India** in Information Technology . *First Class Honours.* Department Gold Medals for Outstanding Performance.
2009 – 2012	🔖 **B.Sc. Information Technology, Kuvempu University, Karnataka, India.** *First Class Honours.*

Awards and Achievements

2022	🔖 **Women in Academics Award**, honoured by Nikhil Bharat Shiksha Parishad at Bengal Education Conclave and Shiksha Samman 2022.
2021	🔖 **Postdoctoral Fellowship (PDF) Award**, selected as UGC-Dr. D.S. Kothari Post Doctoral Fellow (DSKPDF)
2015	🔖 **Merit Award**, University honoured with Gold Medals for Outstanding Student Performance in M.Sc. Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
2015	🔖 **Best Paper Presentation Award**, for article- "Cyber Crime: Trends and Issues" in LUSCON-2015, India.

Summer Internship Project

2022	🔖 **Honoured as Best Project in Sciences**- Mentored a Project to Graduation students on on "Cybercrime in India: An Analysis of Crime against Women in ever Expanding Digital Space" under Centre for Research, Maitreyi College (University of Delhi), New Delhi.
	🔖 Mentored a Project to Graduation students on on "Social Media Toxic-Text analysis using Deep Learning Techniques " under Centre for Research, Maitreyi College (University of Delhi), New Delhi.

Summer Internship Project (continued)

2023   🔖 **Honoured as Best Project**- Mentored a Project to Graduation students on on "Know What They Say: An AI-based Communication Bridge Between Hearing / Speech impaired and Normally abled" under Centre for Research, Maitreyi College (University of Delhi), New Delhi.

     🔖 Mentored a Project to Graduation students on on "Reinforcement learning approach robotics: A comprehensive study" under Centre for Research, Maitreyi College (University of Delhi), New Delhi.

Research Publications

Journal Articles

1. **Sankhwar, S.**, Ahuja, R., Choubey, T., Jain, P., Jain, T., & Verma, M. (n.d.). Cybercrime in india: An analysis of crime against women in ever expanding digital space. *Security and Privacy*, e340.

2. Agarwal, N., Mohanty, S. N., **Sankhwar, S.**, & Dash, J. K. (2023). A novel model to predict the effects of enhanced students' computer interaction on their health in covid-19 pandemics. *New Generation Computing*, 1–34.

3. Dohare, R., Kumar, M., **Sankhwar, S.**, Kumar, N., Sagar, S. K., & Kishore, J. (2021). Sir-si mathematical model for zika virus progression dynamics in india: A case study. *Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)*, *53*(2), 100–104.

4. Khan, S., Khan, M. W., Kumar, N., Dohare, R., & **Sankhwar, S.** (2021). Transmission dynamics of covid-19 outbreak in india and effectiveness of self-quarantine: A phase-wise data driven analysis. *International Journal of Computer Applications in Technology*, *66*(3-4), 389–400.

5. Paruchuri, P. K., Gomathy, V., Devi, E. A., **Sankhwar, S.**, & Lakshmanaprabu, S. (2021). An intelligent covid-19 classification model using optimal grey-level co-occurrence matrix features with extreme learning machine. *International Journal of Computer Applications in Technology*, *65*(4), 334–342.

6. Singh, P., Rai, A., Verma, A. K., Alsahli, M. A., Rahmani, A. H., Almatroodi, S. A., Alrumaihi, F., Dev, K., Sinha, A., **Sankhwar, S.**, et al. (2021). Survival-based biomarker module identification associated with oral squamous cell carcinoma (oscc). *Biology*, *10*(8), 760.

7. Tiwari, D., Bhati, B. S., Nagpal, B., **Sankhwar, S.**, & Al-Turjman, F. (2021). An enhanced intelligent model: To protect marine iot sensor environment using ensemble machine learning approach. *Ocean Engineering*, *242*, 110180.

8. Bhatt, S., Singh, P., Sharma, A., Rai, A., Dohare, R., **Sankhwar, S.**, Sharma, A., & Ali Syed, M. (2020). Deciphering key genes and mirnas associated with hepatocellular carcinoma via network-based approach. *IEEE/ACM Transactions on Computational Biology and Bioinformatics, In Press*, DOI: 10.1109/TCBB.2020.3016781.

9. Paruchuri, K. P., V, G., E Devi, A., **Sankhwar, S.**, & SK, L. (2020). An intelligent covid-19 classification model using optimal gray-level co-occurrence matrix features with extreme learning machine. *International Journal of Computer Applications in Technology, In Press*.

10. **Sankhwar, S.**, Gupta, D., Ramya, K., Rani, S. S., Shankar, K., & Lakshmanaprabu, S. (2020). Improved grey wolf optimization-based feature subset selection with fuzzy neural classifier for financial crisis prediction. *Soft Computing*, *24*(1), 101–110.

11. **Sankhwar, S.**, Kumar, N., & Dohare, R. (2020). Mathematical model of transmission dynamics with mitigation and health measures for sars-cov-2 infection in european countries.
🔗 https://doi.org/10.21203/rs.3.rs-32248/v1

12. **Sankhwar, S.**, Pandey, D., & Khan, R. (2020). An anti-phishing enterprise environ model using feed-forward backpropagation and levenberg-marquart method. *Security and Privacy, In Press*.

13 Singh, P., Amir, M., Chaudhary, U., Ahmad, F., Bhatt, S., **Sankhwar, S.**, & Dohare, R. (2020). Identification of robust genes in transcriptional regulatory network of mycobacterium tuberculosis. *IET Systems Biology*, *In Press*.

14 **Sankhwar, S.**, Pandey, D., & Khan, R. (2019). Email phishing: An enhanced classification model to detect malicious urls. *EAI Endorsed Transactions on Scalable Information Systems*, *6*(21).

15 **Sankhwar, S.**, & Chaturvedi, A. (2018). Woman harassment in digital space in india. *International Journal of Pure and Applied Mathematics*, *118*(20), 595–607.

16 **Sankhwar, S.**, & Pandey, D. (2014). Software project risk analysis and assessment: A survey. *Global Journal of Multidisciplinary Studies*, *3*(5), 144–160.

International Conferences

2022
- **International Conferences**- Sankhwar, Shweta, et al, "A Safeguard against ATM Fraud" 6th International Advanced Computing Conference (IACC), 27-28 Feb 2016, Andhra Pradesh, India"
- **International Conferences**- "A Model to reduce ATM Transaction Fraud/Risk" (Poster Presentation), International Conference on Emerging Trends in Information Technology (ICETIT-2015) 23-24 March 2015, organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
- **International Conferences**- "Phishing: A Critical Review", "5th International Conference on Contemporary Issues of Science, Engineering and Management" (ICCI-SEM-2K17, 18th-19th February 2017, International pure Applied and Mathematics, ISSN: 1314-3395, Vol. 119 No. 15. 2018, pp. 2917-2923
- **International Conferences**- "A Glance of Anti- Phish Techniques", "5th International Conference on Contemporary Issues of Science, Engineering and Management" (ICCI-SEM-2K17, 18th-19th February 2017, International pure Applied and Mathematics, ISSN: 1314-3395, Vol. 119 No. 15. 2018, pp.2925-2936.

National Conferences

2016
- **National Conference**- Sankhwar, Shweta et al, "Phishing: An Emergent Threat", National Conference on Information Security Challenges (NCISC-2016), held on 24 Feb 2016 organized by Dept of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
- **National Conference**- Sankhwar, Shweta et al, "An Overview of Data mining in E-Governance", National Conference on Information Security Challenges (NCISC-2016), held on 24 Feb 2016 organized by Dept of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
- **National Conference**- Sankhwar, Shweta et al, "Security Testing Profile: An Introduction", National Conference on Information Security Challenges (NCISC-2016), held on 24 Feb 2016organized by Dept of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
- **National Conference**- Sankhwar, Shweta et al, "E-Learning in Education", Knowledge management for organizational Excellence in Present Scenario (NSKMOEPS-2016) 6th Feb 2016 organized by Moti Lal Rastogi School of Management, Lucknow

Invited Talks

2016
- **Lecture Delivered on** Phishing Tools and Techniques in International Cyber Security Conference and Exhibition organized by Cyber Zone Technologies (P) Limited, Lucknow.

Invited Talks (continued)

2018 🔖 **Lecture Delivered on** Smart phone Usage in Internet Age organized by Telecom Regulatory Authority of India (TRAI) at Lucknow.

🔖 **Lecture Delivered on** Cybercrime and Security organized by Telecom Regulatory Authority of India (TRAI) at Meerut.

2019 🔖 **Lecture Delivered on** Ethical Hacking in 5-Days FDP on 'Cyber Security' organized by Department of Computer Science and Application, Doctor Harisingh Gour University, Sagar (M.P).

🔖 **Lecture Delivered on** Phishing in 5-Days FDP on 'Cyber Security' organized by Department of Computer Science and Application, Doctor Harisingh Gour University, Sagar (M.P).

🔖 **Lecture Delivered on** Web Security in 5-Days FDP on 'Cyber Security' organized by Department of Computer Science and Application, Doctor Harisingh Gour University, Sagar (M.P).

2020 🔖 **Lecture Delivered on** Impact from Vulnerability in 5-Days FDP on 'Cyber Security' organized by Department of Computer Science and Application, Doctor Harisingh Gour University, Sagar (M.P).

🔖 **Lecture Delivered on** Deploying Mobile Device Security in 5-Days FDP on 'Cyber Security' organized by Department of Computer Science and Application, Doctor Harisingh Gour University, Sagar (M.P).

Session Chair/Reviewer

2023 🔖 **Session Chair/ Reviewer** EAI ICISML 2024 - EAI International Conference on Intelligent Systems and Machine Learning on 5th-6th January, 2024

🔖 **Session Chair/ Reviewer** EAI PerSoM 2023 - EAI 2nd International Conference on Pervasive knowledge and collective intelligence on Web and Social Media in Chaitanya Bharathi Institute of Technology on November 24-25, 2023, Hyderabad, India

🔖 **Session Chair/ Reviewer** EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning on 2023

2022 🔖 **Session Chair in** International Health Informatics Conference (Springer) in June 2022 at Sri Sri University, Cuttack, Odissa, India.

🔖 **Session Chair in** International Conference on Advances in Signal Processing, VLSI, Communications and Embedded Systems (ICSVCE 2022) on July 2022 at Vardhaman College, Hyderabaad, India.

🔖 **Session Chair and Moderator of the Workshop on** Applications of AI /ML in Agriculture at EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning on 16th-17th December 2022.

🔖 **Session Chair/ Reviewer** EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning on 16th-17th December 2022.

Committee member

2023 🔖 **Coordinator**- of webinar on "AI and Its Application" 29th June 2023, organized by Department of Computer Science, Maitreyi College, University of Delhi.

🔖 **Organizing Committee member** of "ICT tools and Applications" 3rd to 16th January 2023 (30 Hours Certificate Course).

Committee member (continued)

2022
- **Committee member** of IQAC, Computerization, Short Term Courses in Maitreyi College (University of Delhi)
- **Committee member** in Maitreyi College NAAC Criteria work and Technical Support in 2021-2022.
- **Organizing Committee member and Session Chair** in International Health Informatics Conference (Springer) in June 2022 at Sri Sri University, Cuttack, Odissa.
- **Organizing Committee member and Session Chair** in ICSVCE 2022 on July 2022 at Vardhaman College, Hyderabaad.
- **Organizing Committee member and Moderator** of the Workshop Applications of AI /ML in Agriculture at EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning on 16th-17th December 2022.
- **Organizing Committee member and Reviewer** of EAI ICISML 2022 - EAI International Conference on Intelligent Systems and Machine Learning Research paper on 16th-17th December 2022.

2021
- **Organizing Committee member**- of webinare Machine Learning and its Application on 21 August 2021, organized by organized by Department of Computer Science, Maitreyi College (University of Delhi)
- **Coordinator** of 5 Day workshop on "Data Analysis using Python" 24 - 28 June 2021, organized by Department of Computer Science, Maitreyi College, University of Delhi.
- **Organizing Committee member** of power seminar by ICT Academy on Employability skill for the future on 18 September 2021, organized by Department of Computer Science, Maitreyi College, University of Delhi in 2021

2016
- **Technical Committee member** of National Conference on Information Security Challenges (NCISC-2016), held on 24 Feb 2016 organized by Dept of Information Technology, BBA University (A Central University), Lucknow.
- **Coordinator** of Cyber Conclave'16 India's Foremost Information Security and Hacking Conference organized by cyber zone Technologies (P) Ltd at BBD, Lucknow

2015
- **Organizing Committee member** of International conference on Emerging Trends in Information technology (ICETIT-2015) held on 24-25 March 2015, organized by Dept of Information Technology, B.B.A University (A Central University), Lucknow.
- **Student Council Member**- Student Council Member of Session 2016-2017, Department of Information Technology, B.B.A University (A Central University), Lucknow.

Workshop Attended

2014
- **Workshop on** Rapid Application Development Using Oracle IDS 30 to 31 October 2014 by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.
- **Workshop on** Research Methodology in Information Technology 22 to 28 September 2014, by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.

2016
- **Workshop on** Computer Programming and GUI Development using MATLAB, 18 to 23 March 2016, IIITDM, Jabalpur, M.P.
- **Worksho on** FDP on MATAB and its Application in Engineering 14 to 18 January 2016 organized by Department of Electrical Engineering, Dr. A.P.J. Abdul Kalam Technical University, Lucknow.
- **Workshop on** Cyber Forensics: Fundamental and Advancement under Information Security and Awareness (ISEA) project Govt of India, 27th to 29th January 2016 organized by Department Computer Science, Maulana Azad National Institute of Technology Bhopal MANIT, Bhopal, M.P.

Workshop Attended (continued)

🔖 **Workshop on** Short Term Training Program in "Applications of SPSS in Multidisciplinary" 6 to 12 January 2016 organized by Department Computer Science, Maulana Azad National Institute of Technology Bhopal MANIT, Bhopal, M.P

🔖 **Workshop on** An Information Security and Hacking Conference- Cyber Conclave, 6th to 7th Feb 2016 At Lucknow

2017 🔖 **Workshop on** Computer Security from the Data Science Perspective 18 to 30 Dec 2017, Department Computer Science, IIT Ropar, Punjab.

🔖 **Workshop on** Choice Based Credit System and Outcome Based, 30 to 31 March 2017, organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.

2018 🔖 **Workshop on** Two weeks Training Course on Cyber Security, 1 to 15 Feb 2018, organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.

🔖 **Workshop on** Ethical Hacking Workshop 3rd-6th March 2016, TECHKRITI, The Annual Technical and Entrepreneurial Festival of IIT Kanpur

🔖 **Workshop on** Ethical Hacking and Information Security 6 to 12 August 2015, organized by Department of Information Technology, Babasaheb Bhimrao Ambedkar (A Central University), Lucknow.

Skills

Languages	🔖	Strong reading, writing and speaking competencies for English and Hindi.
Subjects/tools	🔖	Python, MSQL, R, MATLAB- Data Analysis, Letex, asp.net, Mysql
Web Dev	🔖	Html, css, JavaScript, Tkinter, MySQL.
Misc.	🔖	Academic Research, teaching, training, consultation, typesetting and publishing.

Personal Profile

Name	🔖	**Dr. Shweta Sankhwar**
Mother's Name	🔖	**Mrs. R. K. Sankhwar**
Father's Name	🔖	**Mr. R. D. Sankhwar**
Marital Status	🔖	**Married**
Gender	🔖	**Female**
Language Known	🔖	**Hindi, English**
Nationality	🔖	**Indian**
Lives In	🔖	**New Delhi**