

Arjun Choudhary, PH.D.

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SUMMARY

An avid learner in the field of Security and Privacy. Been in academia for more than a decade with experience of Industry and Banking as well. Currently having several positions in SPUP, Jodhpur which includes Network and IT Admin, NCC ANO, AISHE Coordinator, AICTE Coordinator, IIC President and the list goes on.

WORK EXPERIENCE

Assistant Professor, Dept. of Cyber Security, SPUP, Jodhpur Jan 2014 - present

Instrumental in crafting the Post Graduate Program M.Tech. in Cyber Security an industry ready along with initiated two more programs namely Diploma and Certificate Program in Cyber Security. Instrumental in organizing several training programs in Academia and Industry for more than a decade. Currently visiting faculty at several institutes including North East Police Academy, Shillong; Rajasthan Police Academy, Jaipur; BSF, Jodhpur; RPTC, Jodhpur

Assistant Manager (Systems), State Bank of India June 2012 - Jan 2014

- Instrumental in implementing AD security across five states branches.
- Responsible for maintaining and securing the servers related Management Information Systems, which in turn provided support to Audit department and was instrumental in collecting large datasets from more than 2500 branches across five states.

EDUCATION

2018 - 2022 PhD (Computer Science & Engineering) at **MBM University**

2010 - 2012 M.Tech.(CSE) at **MNNIT, Allahabad** (CGPA: 9.37/10.00)

2005 - 2009 B.Tech. (Comm. & Comp. Engg.) at **The LNMIIT, Jaipur** (CGPA: 7.11/10.00)

2003 Class 12th RBSE, Ajmer (78%)

2001 Class 10th RBSE, Ajmer (84.17%)

PUBLICATIONS

Nigam, R. et al. (2014). "Non-dominated sorting environmental adaptation method (NS-EAM)". In: *International Conference on Signal Processing and Integrated Networks (SPIN), 2014*. IEEE, pp. 595–600.

Choudhary, Arjun and Vijay Singh (2016). "Technological Innovation using Big Data in Business Landscape". In: *National Conference on Emerging Practices in Management NCEPM-2016*. ISBN 978-93-5254-248-2, pp. 427–431.

Bhatia, Gaurav et al. (2017). "The road to docker: a survey". In: *International Journal of Advanced Research in Computer Science* 8.8, pp. 83–87.

Choudhary, Arjun (2017). "Cyber Murder: A New Dimension to the Crime of Murder". In: *Cyber Crimes in 21st Century*. Manakin Press, pp. 385–399.

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- Dadheeck, Krati et al. (2018). "De-militarized zone: A next level to network security". In: *2018 Second International Conference on Inventive Communication and Computational Technologies (ICICCT)*. IEEE, pp. 595–600.
- Krishna Parihar Arjun Choudhary, Vishrant Ojha (2018). "A Comparative Analysis between Traditional Virtualization and Container Based Virtualization for Advancement of Open Stack Cloud". In: *International Journal of Engineering Research in Computer Science and Engineering* 5.4, pp. 536–540.
- Ojha, Vishrant et al. (2018). "COMPARISON OF THE TWO GIANTS IN CONTAINER PLATFORMS: KUBERNETES WITH OPENSTACK VS. DOCKER." In: *International Journal of Advanced Research in Computer Science* 9.3.
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- Choudhary, Arjun and Rajesh Bhadada (2020). "Emerging threats in cloud computing". In: *International Conference on Emerging Technology Trends in Electronics Communication and Networking*. Springer Singapore Singapore, pp. 147–156.
- Lehri, Divam and Arjun Choudhary (2020). "A survey of energy theft detection approaches in smart meters". In: *Intelligent Energy Management Technologies: ICAEM 2019*. Springer Singapore Singapore, pp. 9–24.
- Mondal, Smita and Arjun Choudhary (2020). "Combating DoS Attack on OpenStack Using Hypervisor Based Intrusion Detection System with the Help of Machine Learning". In: *Proceedings of International Conference on Big Data, Machine Learning and their Applications: ICBMA 2019*. Springer Singapore Singapore, pp. 161–168.
- Srivastava, Pranjal and Arjun Choudhary (2020). "Evolving evidence gathering process: cloud forensics". In: *Proceedings of International Conference on Big Data, Machine Learning and their Applications: ICBMA 2019*. Springer Singapore Singapore, pp. 227–243.
- Luthra, Jatin et al. (2021). "ARUSH: automated runtime universal scanner for hybrid cloud computing". In: *2021 IEEE Globecom Workshops (GC Wkshps)*. IEEE, pp. 1–5.
- Pujar, Sindhu N et al. (2021). "An adaptive auto incident response based security framework for wireless network systems". In: *Research Briefs on Information & Communication Technology Evolution* 7, p. 4.
- Singh, Anand Prakash and Arjun Choudhary (2021). "Approach for Ensuring Fragmentation and Integrity of Data in SEDuLOUS". In: *Proceedings of Second International Conference on Computing, Communications, and Cyber-Security: IC4S 2020*. Springer Singapore Singapore, pp. 857–869.
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Choudhary, Arjun, Ashish Tripathi, Aditi Sharma, et al. (2022). "Evolution and comparative analysis of different Cloud Access Security Brokers in current era". In: *2022 International Conference on Fourth Industrial Revolution Based Technology and Practices (ICFIRTP)*. IEEE, pp. 36–43.

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Kunndra, Chetanya, Arjun Choudhary, Prashant Mathur, Kapil Pareek, and Gaurav Choudhary (2022). "CNN-LSTM: A deep learning model to detect botnet attacks in internet of things". In: *International Conference on Cryptology & Network Security with Machine Learning*. Springer Nature Singapore Singapore, pp. 353–365.

Mathur, Prashant et al. (2022). "SVM-RF: A Hybrid Machine Learning Model for Detection of Malicious Network Traffic and Files". In: *International Conference on Cryptology & Network Security with Machine Learning*. Springer Nature Singapore Singapore, pp. 29–40.

Pareek, Kapil, Arjun Choudhary, Ashish Tripathi, and KK Mishra (2022). "Comparative Analysis of Social Media Hate Detection over Code Mixed Hindi-English Language". In: *Advances in Data and Information Sciences: Proceedings of ICDIS 2021*. Springer Singapore Singapore, pp. 551–561.

Pareek, Kapil, Arjun Choudhary, Ashish Tripathi, KK Mishra, and Namita Mittal (2022). "Hate and aggression detection in social media over Hindi English language". In: *International Journal of Software Science and Computational Intelligence (IJSSCI) 14.1*, pp. 1–20.

Prajapat, Ram Prakash et al. (2022). "Information Security Enhancement by Increasing Randomness of Stream Ciphers in GSM". In: *International Journal of Advanced Computer Science and Applications 13.4*.

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Tripathi, Ashish, Arun Kumar Singh, Adarsh Singh, et al. (2022). "Analyzing skin disease using XCNN (extended convolutional neural network)". In: *International Journal of Software Science and Computational Intelligence (IJSSCI) 14.1*, pp. 1–30.

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Kunndra, Chetanya, Arjun Choudhary, Jaspreet Kaur, Aryan Jogia, et al. (2023). "NTPPhish: A CNN-RNN Hybrid Deep Learning Model to Detect Phishing Websites". In: *International Conference on*

Cryptology & Network Security with Machine Learning. Springer Nature Singapore Singapore, pp. 587–599.

Kunndra, Chetanya, Arjun Choudhary, Jaspreet Kaur, and Prashant Mathur (2023). “VAIDS: A Hybrid Deep Learning Model to Detect Intrusions in MQTT Protocol Enabled Networks”. In: *International Conference on Recent Trends in Image Processing and Pattern Recognition*. Springer Nature Switzerland Cham, pp. 209–222.

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Punia, Meenakshi, Arjun Choudhary, Sonu Agarwal, et al. (2023). “Ethical considerations and legal frameworks for biometric surveillance systems: the intersection of AI, soft biometrics, and human surveillance”. In: *International Conference on Cryptology & Network Security with Machine Learning*. Springer Nature Singapore Singapore, pp. 659–674.

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Sharma, Aditi et al. (2023). “Blockchain Based Security Enabled Smart Contract for Energy Management”. In: *2023 16th International Conference on Security of Information and Networks (SIN)*. IEEE, pp. 1–7.

Tripathi, Ashish, Nikita Chauhan, et al. (2023). “Augmented reality and its significance in healthcare systems”. In: *Meta-Learning Frameworks for Imaging Applications*. IGI Global, pp. 103–118.

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Tripathi, Ashish, Arun Kumar Singh, Anand Bhushan Pandey, et al. (2023). “Internet of Things in biomedical system: significance, applications, and challenges”. In: *Internet of Things in Biomedical Sciences: Challenges and applications*, pp. 13–1.

Punia, Meenakshi, Arjun Choudhary, Kumari Sudha, et al. (2024). “A Multi-layered Approach: Examining the Interplay Between GDPR, EU AI Act, and DPDP Act for ICT”. In: *International Conference on ICT for Sustainable Development*. Springer Nature Singapore Singapore, pp. 553–562.

Punia, Meenakshi, Arjun Choudhary, Rufus Devairakkam, et al. (2025). “AI accountability in the digital realm: A new paradigm”. In: *Intelligent Computing and Communication Techniques*. CRC Press, pp. 720–728.

SKILLS

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| Cyber Security | Taught Web Application & Penetration Testing, Cyber Threat Intelligence, Malware Analysis, Cloud Computing & Security, Topics in Cyber Security and several other subjects related to cyber security domain. |
| Lead Auditor ISO 27001 | Currently doing audits with several firms for ISMS along with DPDP Act 2023 |
| Cyber Crime Investigator | Working with several agencies in solving and guiding cyber related crimes |
| Cyber Consultant | Providing consultancy to cyber victims along with several other institutions for setting up and securing their cyber security poster. |