


CURRICULUM VITAE

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|--|-----------------------------------|---|
| Name | Mr. Ashutosh Kumar |  |
| Department | Computer Science & Engineering | |
| Designation | Assistant Professor | |
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| Educational Qualification | Pursuing PhD. | |
| Areas of Interest/ Specialization | Cloud Computing, Machine Learning | |
| Teaching Experience | 6.5 | Research Experience - |
| Administrative Experience: Department OiC Exam (IT Gopeshwar) | | |

- **Research Publications:**

- Garima Verma and **Ashutosh Kumar** "A Secure Access control model based on Improved Attribute-Based Cryptosystem in Cloud Environment" International Journal of Information and Computer Security. DOI:10.1504/IJICS.2022.10049533. **(Scopus)**
- Verma, G., & **Kumar, A.** (Mar 2023). Novel quantum key distribution and attribute-based encryption for cloud data security. *Concurrency and Computation: Practice and Experience*, e7700. <https://doi.org/10.1002/cpe.7700>. **(SCI)**
- Kumar, A., Verma, G. "Revolutionizing Cloud Security: Leveraging Quantum Computing and Key Distribution for Enhanced Protection" Rev Socionetwork Strat (2023). <https://doi.org/10.1007/s12626-023-00140-4>. **(ESCI)**
- Kumar, A., Verma, G. Securing cloud access with enhanced attribute-based cryptography. *Computing* (2023). <https://doi.org/10.1007/s00607-023-01212-7>. **(SCI)**
- Kumar, A., Verma, G. "Secure Cloud Data Access: Unifying Quantum Key Distribution and Attribute-Based Encryption for Enhanced Data Protection" *SN Computer Science* (2023). <https://doi.org/10.1007/s42979-023-02285-z>. (Scopus)
- Verma, G., Kumar, A. (Mar 2023). Novel quantum key distribution and attribute-based encryption for cloud data security. *Concurrency and Computation: Practice and Experience*, e7700. **(SCIE)**
- **Kumar, A.**, & Verma, G. Revolutionizing cloud security: leveraging quantum computing and key distribution for enhanced protection. *The Review of Socionetwork Strategies*, Springer. **(WOS)**
- **Ashutosh Kumar**, IJREAT "Public Auditing for Shared Data in the Cloud Networks with Privacy-Preserving implementation", Vol. 4, issue 2, April-May 2016, Page no.180-186.
- **Ashutosh Kumar**, "Security issues in cloud computing," *International Journal of Advance Research And Innovative Ideas In Education*, vol. 5, no. 6, pp. 255-259, Nov-Dec2019.
- **Ashutosh Kumar**, "Security with big data in cloud computing," *International Journal Of Advance Research And Innovative Ideas In Education*, vol. 5, no. 6, pp. 407-411, Nov-Dec2019.

- **Ashutosh Kumar**, "An Review on HTTP, TCP Flood, DDOS Attack in Cloud Environment & Their Solutions," International Journal of Scientific Research in Computer Science and Engineering, Vol.8, Issue.1, pp.117-122, 2020.
- **Ashutosh Kumar**, "Improving Database Security in Cloud Computing," International Journal of Scientific Research in Computer Science and Engineering, Vol.8, Issue.1, pp.126-128,2020.
- **Ashutosh Kumar**, "Quality and Security in Big Data: Challenges as opportunity to make a Powerful Conclude Clarification" International Journal of P2P Network Trends and Technology 10.3 (2020):10-17.

Conference Paper-

- **Kumar, A.,** & Verma, G. (May 2023). Attribute-Based Encryption Techniques: A Review Study on Secure Access to Cloud System. In Machine Learning and Computational Intelligence Techniques for Data Engineering: Proceedings of the 4th International Conference MISIP 2022, Volume 2 (pp. 161-170). Singapore: Springer Nature Singapore. (Scopus)
- **A. Kumar** and G. Verma, "Secure Cloud Storage Access Framework Using Blockchain Technology," 2023 11th International Conference on Intelligent Systems and Embedded Design (ISED), Dehradun, India, 2023, pp. 1-5, doi: 10.1109/ISED59382.2023.10444539.

Patent Published-

- **Application No-** 202311008064, **Applicant Name-** **Ashutosh Kumar**, Garima Verma, **Title -** Security in the Cloud with A Token-based Authentication and Key-agreement Protocol, Published on – 10th Feb 2023
- **Member of Scientific Organization/Academic Institutions/Universities**
- **National Level Exam- Gate 2014**
- **Online Courses**
 1. One week workshop on "Essential Life, Social and Entrepreneurship Skills" Organized by Innovation, Design and Startup at Institute of Technology Gopeshwar.
 2. Five Days workshop on "Machine Learning Using Python "Sponsored by Equity Action Plan, TEQIP-III, Institute of Technology, Gopeshwar.
 3. Five Days Short term Course on Case Teaching and Case writing under TEQIP III, at Indian Institute of Technology, Delhi.
 4. One Week Online Short term Course on “Supply Chain Management: Challenges and strategies” Organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India.
 5. Five days Online Short term Course on "Technological Challenges & Opportunities in COVID-19 Outbreak" Sponsored by TEQIP- III and organized by Department of Computer Science and Engineering, NIT Uttarakhand.
 6. One week live online webinar and Certification on “Outcome based Education and NBA Accreditation” organized by Engineering Staff College of IdiaGachibowli, Hyderabad.
- **FACULTY DEVELOPMENT PROGRAM**

1. One week Online International Faculty Development Programme on "Blockchain and its applications" organize by Department of Computer Science and Engineering, GBPIET, Pauri Garhwal,Uttarakhand.
 2. One week Online International Faculty Development Programme on "Deep Learning & Computational Intelligence in Internet Era" organize by Department of Computer Science and Engineering, GBPIET, Pauri Garhwal,Uttarakhand.
 3. Two weeks Online Faculty Development Programme on “CYBER CRIME & SECURITY” organize by Department Of Information Technology, College of Technology, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand (India).
 4. Two week International FDP on “Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development” organized by Computer Science and Engineering Department, BipinTripathi Kumaon Institute of Technology Dwarahat(Uttarakhand), INDIA.
 5. One week Faculty Development Programme on “ICT Tools for Teaching” organized by Department of Electronics & Communication Engineering, G. B. Pant Institute of Engineering and Technology, Pauri Garhwal, Uttarakhand.
- **Awards and Achievements:**

Ashutosh Kumar
Assistant Professor
Institute of Technology
Baun Uttarkashi