

Navigating the Legal Landscape: Compliance and Standards in Digital Forensics

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Abstract

Digital forensics is an essential discipline in the law enforcement, civil litigation, and corporate security. As technology evolves, the necessity of legal frameworks and compliance standards that govern digital forensic investigations evolves. This paper examines the legal landscape surrounding the digital forensics, focusing on compliance requirements, established standards, and the challenges faced by the practitioners. By analysing current legal frameworks and best practices, this paper provides a bird's eye view that aids professionals in navigating the administrative complexities in digital forensics.

Keywords

Digital Forensics, Legal Frameworks, Compliance, Case Law, Challenges.

Biographies

Boda Gowthami is an MTech student in Cyber Forensics and Information Security at Jawaharlal Nehru Technological University, Hyderabad, India. She completed her Bachelor's Degree in Information Technology from University College of Engineering and Technology for Women in 2022. Gowthami is gaining her practical experience in digital forensics from NRSC Hyderabad to enhance forensic investigations and automate the analysis of digital evidence. Her work aims to address challenges related to data integrity, privacy, and legal compliance in the field of cyber forensics.

Dr. R Sridevi is a Professor of CSE with 23 years of teaching experience. Presently working as Professor, Director, Directorate of Entrepreneurship, Innovation and Start-ups, JNTUH & Co. Ordinator, Centre of Excellence in Cyber Security, JNTUH. Lead various roles as Head of the CSE Department nearly 3 years, Additional Controller of Examinations (EDEP), Additional Controller of Examinations (Result Processing). Worked as Chairman, Board of Studies for Department of CSE, JNTUHUCEH, Hyderabad. During the tenure of Head, organized several Workshops, FDPs, curricular and extra-curricular events and 3 international conferences. Established three Research Labs IoT Lab, Digital Forensics Lab & Big Data Analytics Lab and one smart classroom under TEQIP in the department. Network security and information security are the research domains. Guided 7 Ph.Ds. & Published very good number of research papers in various national and international conferences and reputed journals with high indexing factor.