

Workshop Title

Beyond Anonymity: Leveraging OSINT to Investigate the Dark Web Ecosystem



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BRIEF OVERVIEW OF THE SESSION

Description/

Background:

This session explores how Open Source Intelligence (OSINT) enhances Dark Web investigations by enabling intelligence-driven cybercrime detection. Participants will learn digital footprint analysis, threat actor profiling, infrastructure mapping, AI-assisted investigations, OPSEC, legal considerations, and practical methodologies through real-world case studies, strengthening digital forensics, cyber threat intelligence, and evidence-based investigative decision-making.

Learning outcomes:	Through this session/workshop, students/officials will be able to- ✓ Understand the structure of the Surface Web, Deep Web, and Dark Web. ✓ Explore the importance of OSINT in modern cybercrime investigations. ✓ Learn intelligence-driven approaches for digital investigations. ✓ Understand threat actor profiling and digital footprint analysis. ✓ Explore the role of Artificial Intelligence in OSINT investigations. ✓ Discuss legal, ethical, and operational considerations. ✓ Understand future trends in intelligence-led digital forensics.
Components of the workshop:	✓ Orientation and Introductory Lecture ✓ Introduction to the Surface Web, Deep Web, and Dark Web ✓ Fundamentals of Open Source Intelligence (OSINT) ✓ Intelligence Collection and Digital Footprint Analysis ✓ Threat Actor Profiling and Infrastructure Mapping ✓ AI-Assisted OSINT in Cybercrime Investigations ✓ Demonstration of OSINT-Based Dark Web Investigation Methodologies

	✓ Case Presentation on Real-World Cybercrime Investigations ✓ Discussion on OPSEC, Legal, Ethical, and Privacy Considerations ✓ Interactive Investigation Exercise and Hands-on Intelligence Analysis ✓ Question & Answer Session and Expert Discussion
Target Audience	✓ Digital Forensic Professionals ✓ Law Enforcement Officers ✓ Cybersecurity Professionals ✓ Threat Intelligence Analysts ✓ Researchers and Academicians ✓ Students pursuing Cyber Security and Digital Forensics