INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block,

Infosoft It solutions, Software Training & Development Institute, **9059683947|9182540872**

Digital Forensics

Introduction to Digital Forensics

- Overview of Digital Forensics

- History and Evolution

- Legal and Ethical Considerations

- Roles and Responsibilities of a Digital Forensics Examiner

Digital Evidence Fundamentals

- Types of Digital Evidence

- Locard's Exchange Principle

- Chain of Custody

- Rules of Evidence

Digital Forensics Process

- Digital Forensics Investigation Frameworks

- Incident Response and Evidence Collection

- Acquisition and Preservation of Digital Evidence

- Documentation and Reporting

File Systems and Data Storage

- Understanding File Systems (NTFS, FAT, EXT)

- Disk Structures and Metadata

- Recovery of Deleted Files

- File Carving Techniques

Forensic Tools and Techniques

- Forensic Imaging Tools (e.g., EnCase, FTK)

- Live vs. Dead Analysis

- Memory Forensics

- Network Forensics

Mobile and Cloud Forensics

- Forensic Challenges in Mobile Devices

- Mobile Device Forensics Tools

- Cloud Storage and Forensic Considerations

- IoT Device Forensics

Network Forensics

- Network Traffic Analysis

- Log Analysis

- Intrusion Detection Systems (IDS)

- Wireless Network Forensics

Legal and Ethical Issues in Digital Forensics

- Laws and Regulations

- Chain of Custody Issues

- Expert Witness Testimony

- Privacy Concerns

Case Studies and Practical Applications

- Real-world Case Studies

- Investigative Techniques

- Analyzing Forensic Reports

Capstone Project or Simulation

- Hands-on Digital Forensics Investigation

- Report Writing and Presentation

Additional Considerations:

- Guest Lectures from Industry Experts

- Workshops and Labs

- Certification Preparation (e.g., Certified Forensic Examiner)