As I wrap up my 45-day Cybersecurity Internship at Senselearner Technologies Pvt. Ltd., I'm thrilled to share my significant experiences and growth during the six weeks. These weeks have encompassed a dynamic mix of foundational learning, practical tasks, and engaging research endeavors.

**Week 1 - Introduction to Cybersecurity & Ethical Hacking:**

* Immersed myself in understanding the significance and challenges of cybersecurity.
* Explored concepts related to ethical hacking, the role of ethical hackers, and the ethical hacking process.
* Completed various tasks, including conducting research and crafting an article emphasizing the importance of cybersecurity in today's digital landscape.

**Week 2 - Footprinting and Reconnaissance:**

* Investigated techniques in footprinting, open-source intelligence (OSINT), DNS footprinting, and web enumeration.
* Conducted in-depth information gathering on Senselearner.com, resulting in a comprehensive OSINT report.
* Engaged in research and authored an article distinguishing between footprinting and reconnaissance.

**Week 3 - Network Scanning:**

* Delved into the fundamentals of TCP/IP, network protocols, and scanning methodologies.
* Utilized Nmap for network discovery, tackled labs from TryHackMe, and enrolled in Cisco Networking Academy courses.
* Conducted research and produced an article highlighting Nmap commands and scanning tools.

**Week 4 - Vulnerability Analysis & Pentesting:**

* Deepened my understanding of Vulnerability Assessment and Penetration Testing (VAPT), vulnerability scanning, and penetration testing.
* Explored topics such as Common Vulnerabilities and Exposures (CVE), Common Weakness Enumeration (CWE), and the National Vulnerability Database (NVD). Also, worked on labs using Nessus and Metasploit.
* Conducted research and composed an article focusing on CVE, CWE, NVD, and SANS TOP 25.

**Week 5 - Exploitation & Post Exploitation:**

* Conducted extensive research on exploitation techniques, mitigation strategies, and emerging solutions.
* Crafted an article discussing zero-day attacks, types of malware, and recently discovered attack methods.

**Week 6 - Web Application Penetration Testing and Report Writing:**

* Applied my skills to complete the OWASP Top 10 lab on TryHackMe.
* Conducted research and authored an article on various types of web application attacks.

I am deeply appreciative of the valuable experiences and the collaborative learning environment I've had the privilege to be part of at Senselearner Technologies Pvt. Ltd.