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A Report for Seminar on "Cyber Security and Ethical Hacking"

Date of the Event	29.07.2024
Title of the Event	Seminar 29.7.2024 Cyber Security and Ethical Hacking from the Department of ISE & CSE (DATA SCIENCE)
Organized by	Dept. of Information Science and Engineering (Data Science), MVJCE, Bangalore

The Department of Information Science and Engineering organized a seminar on "Cyber Security and Ethical Hacking", on 29th July 2024, at MV Jayaraman Auditorium. The seminar started at 9:30 am and concluded at 11:15 am. 400 students from IV semester and VI semester of the Dept. of ISE and Dept. Of CSE (Data Science) attended this. Chief guests Mr. Aravind Kumar, Police Sub Inspector, Varthur Police Station, and Mr. Sreenath Gopinath, Co-Founder, CMO & CRO at TECH BY HEART India Pvt. Ltd., Director of Client Management at INTERNCAN, Kochi; Co-founder of PACKMAN CONSULTING, U.K shared their experiences and insights about cyber security and various domains related to it.

Chief Guests: Mr. Aravind Kumar and Mr. Sreenath Gopinath

Cybersecurity is the practice of protecting systems, networks, and data from digital attacks. It is crucial to safeguard sensitive information against unauthorized access, theft, and damage. Cyber threats include malware, phishing, ransomware, and denial-of-service attacks, which can disrupt business operations and compromise personal data. Implementing strong cybersecurity measures, such as firewalls, encryption, and regular software updates, is essential for maintaining the integrity, confidentiality, and availability of information. Additionally, educating users about potential threats and safe online practices plays a vital role in preventing security breaches. As technology evolves, so do cyber threats, making cybersecurity a dynamic and ongoing challenge that requires vigilance and innovation.

Cyber Security Awareness

Hacking refers to the unauthorized intrusion into a computer or network. Hackers may have various motivations, such as financial gain, political activism, personal challenge, or simply the thrill of exploiting security vulnerabilities. Some hacking techniques are SQL Injection, Cross-Site Scripting (XSS) , Denial of Service (DoS) Distributed Denial of Service (DDoS), Man-in-the-Middle (MitM) Attacks, and Brute Force Attacks. Ethical hacking is a process of detecting vulnerabilities in an application, system, or organization's infrastructure that an attacker can use to exploit an individual or organization. They use this process to prevent cyberattacks and security breaches by lawfully hacking into the systems and looking for weak points. The first ethical hacker in the world is Dan Farmer. An ethical security expert is someone who uses their skills to identify and find vulnerabilities in systems helping organizations protect against malicious attacks.
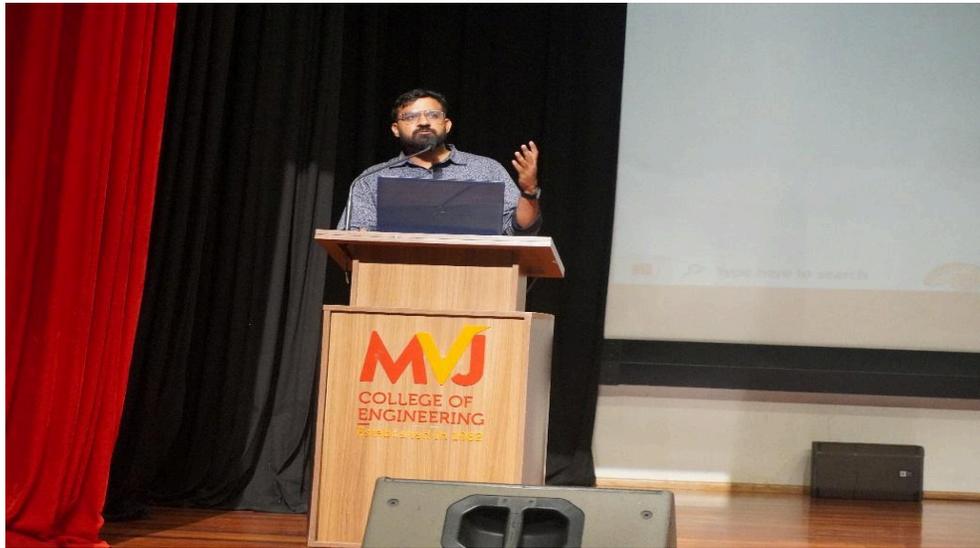
Session on Hacking and types of Hackers

White hat hackers, also known as ethical hackers or penetration testers, are cybersecurity experts who specialize in identifying and fixing security vulnerabilities. They work to improve security systems by mimicking the techniques used by malicious hackers (black hat hackers) but in a lawful and ethical manner. They are often employed by companies to conduct penetration testing, identify vulnerabilities, and help strengthen defenses.

Black hat hackers are individuals who engage in malicious activities by exploiting computer systems, networks, and software vulnerabilities for personal gain or to cause harm. They may steal data, spread malware, or disrupt systems. Unlike white hat hackers, who work to improve security, black hat hackers operate outside the bounds of law and ethics. One of the most famous black hat hacker is Jonanthan Joseph James.

Audience

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Faculty Coordinator of the Event:

Mrs. Sayani (Asst Professor, Dept. of ISE)

Mrs. Kavitha (Asst Professor, Dept. of ISE)

Student Coordinators:

1.   Nandhushree A (1MJ21IS067)

2.   Shruthi A Iyer (1MJ21IS102)

3.   Aadish B (1MJ22IS002)

4.   Murali N P(1MJ22IS064)

5.   Nandan Patil M(1MJ22IS065)

6.   Sai Sumedh E.S (1MJ22IS091)

7.   Shamanth M Elukoti(1MJ22IS103)

8.   Vasudev Krishna (1MJ22IS124)

9.   Anushka R Nambiar(1MJ22CD007)

10.   Harini A(1MJ22CD014)

11.   Sirisha S (1MJ22CD053)

Outcome of the Event:

Through this session students were exposed to potential career opportunities in the field of cybersecurity. They gained a deeper understanding of the importance of cybersecurity and the various types of cyber threats impacting individuals and organizations.