



DEPARTMENT OF CSE - DATA SCIENCE

Event: “AI - DRIVEN CYBER SECURITY FUNDAMENTALS CONCEPTS AND PRACTICES”

Venue: Room C204

Time-11:00 AM-1:00PM

NEW HORIZON COLLEGE OF ENGINEERING
25 YEARS OF GLOBAL LEARNING

COMPUTER SOCIETY OF INDIA
ESTD. 1985

ISTE
INTEGRATION SOCIETY OF TECHNICAL EDUCATION

IEEE

Department of Computer Science & Engineering (Data Science)

AI-Driven Cyber Security Fundamentals
Concepts and Practices

7th October 2025

11:00 AM to 01:00 PM

C - 217

5th Semester Students



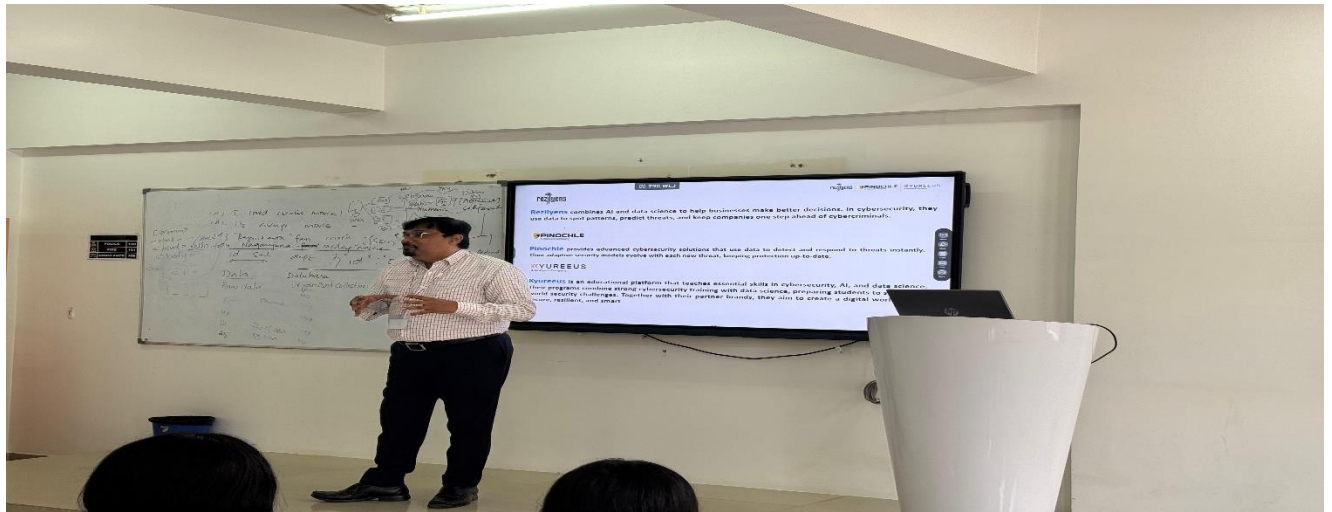
Mr. Anil B P Rao
VP - Delivery and Operations
Rezilyens

Faculty Coordinator Ms. Pallavi Nayak Assistant Professor - CSE (Data Science)	Convenor Dr. B Swathi HoD - CSE (Data Science)
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On 7th October 2025, the **Department of Computer Science and Engineering (Data Science)** at **New Horizon College of Engineering** organized a guest talk titled “**AI - DRIVEN CYBER SECURITY FUNDAMENTALS CONCEPTS AND PRACTICES**” exclusively for **5th semester students**. The guest talk was conducted by **Mr. Anil B P Rao, Vice President Delivery & Operations at REZILYENS**.

Mr. Anil B P Rao began his talk by highlighting the **growing dependence on digital technology** in our everyday lives — from online banking and shopping to communication, education, and healthcare. He explained that as our online presence expands, so does the threat of cyber-attacks, making **cyber security** an essential part of modern living .





At the talk he emphasized that cyber security is not just about protecting computers, but about safeguarding information, privacy, and identity. He shared some alarming statistics — over **15,758 cyber-attacks** occur globally every year, and **43%** of these target small and medium-sized businesses.

He explained that **cyber security ensures Confidentiality, Integrity, and Availability (CIA) of information**. In simple terms, it means keeping data private, accurate, and accessible only to authorized people. Every user, organization, and government entity must take responsibility for securing their digital assets.

He then introduced the students explained **various areas of cyber security and their importance** of Network Security – Protects computer networks from unauthorized access and attacks, Application Security – Ensures software and apps remain free from vulnerabilities, Information Security – Protects sensitive data from being misused, Operational Security – Deals with how data is managed, stored, and shared securely and Disaster Recovery and Business Continuity – Helps in restoring systems after a cyber incident.

Following this, he said several key tools used in the cyber security field, including **Firewalls, Antivirus software, IDPS (Intrusion Detection and Prevention Systems), Encryption Tools, and SIEM Systems (Security Information and Event Management) for real-time monitoring**. He also explained the **importance of Predictive Security**, where data analytics and artificial intelligence are used to identify vulnerabilities before hackers exploit them.

To **help students protect themselves from cyber threats, Mr. Rao** shared a few essential safety tips:

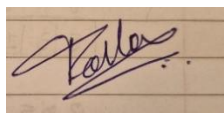
- Use **Two-Factor Authentication (2FA)**.
- Create strong, **unique passwords**.
- **Never click on unknown** or suspicious links.
- Keep **apps and systems updated** regularly.
- **Avoid using public Wi-Fi** for important transactions.

In the later part of his talk, **Mr. Rao discussed the career scope in cyber security**. He encouraged students to consider this as a professional path due to its increasing global demand.

He highlighted that **cyber security professionals enjoy excellent career growth** and job security, exposure to advanced technologies, high-paying opportunities, and a sense of purpose in protecting individuals and organizations, also **motivated students to develop technical, analytical, and problem-solving skills**, and to stay updated with the latest tools and threats .

The Q&A session at the end allowed students to interact with the speakers, discuss practical applications of the tools, and gain advice on career paths in the rapidly growing field of **data science and engineering**.

Overall, the guest talk on **Cyber Security was a remarkable success**, providing students with valuable, industry-relevant knowledge and practical understanding of modern security practices. Through **Mr. Anil B. P. Rao's insightful presentation** and real-world examples, students gained a clear understanding of how digital systems are protected from cyber threats and how data integrity is maintained in a connected world. His detailed explanations on **network security, data protection, and predictive threat analysis** not only strengthened the participants' technical foundation but also highlighted the vast career opportunities in this rapidly growing field. The session **inspired students to explore advanced learning in cyber security, ethical hacking, and digital forensics**, preparing them for both academic excellence and professional success. The combined impact of expert guidance, interactive discussions, and practical awareness made the guest talk both informative and inspiring, leaving a lasting impression on all attendees.



Faculty Coordinator

Asst Prof.

Ms. PALLAVI NAYAK



Convenor

HOD-CSE-DS

Dr. B SWATHI