

## The use Al (ChatGPT) for Offensive Cyber Security

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## Overview



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### Overview of Offensive Cyber Security



#### Offensive Cyber Security:

- Use of offensive tactics to penetrate and exploit
- For intelligence gathering, data theft, or other malicious activities.

#### Types of offensive attacks:

- Phishing
- Malware
- Social Engineering
- DDoS attacks, etc.

#### Challenges in offensive cyber security:

- Difficulty in identifying vulnerabilities
- Finding new attack vectors
- Lack of automation and scalability, need for quick response times.



### ChatGPT in Offensive cyber Security



The use of ChatGPT, an AI-powered chatbot,

 To automate offensive cyber security tasks and improve attack effectiveness.

Applications of ChatGPT in offensive cyber security:

- Social engineering attacks,
- phishing, spear phishing, etc.

Advantages of using ChatGPT in offensive cyber security:

- Improved accuracy and speed
- Ability to process large amounts of data, reduced human error
- Increased scalability and automation.



# ChatGPT in Offensive Cyber Security

Social engineering attacks:

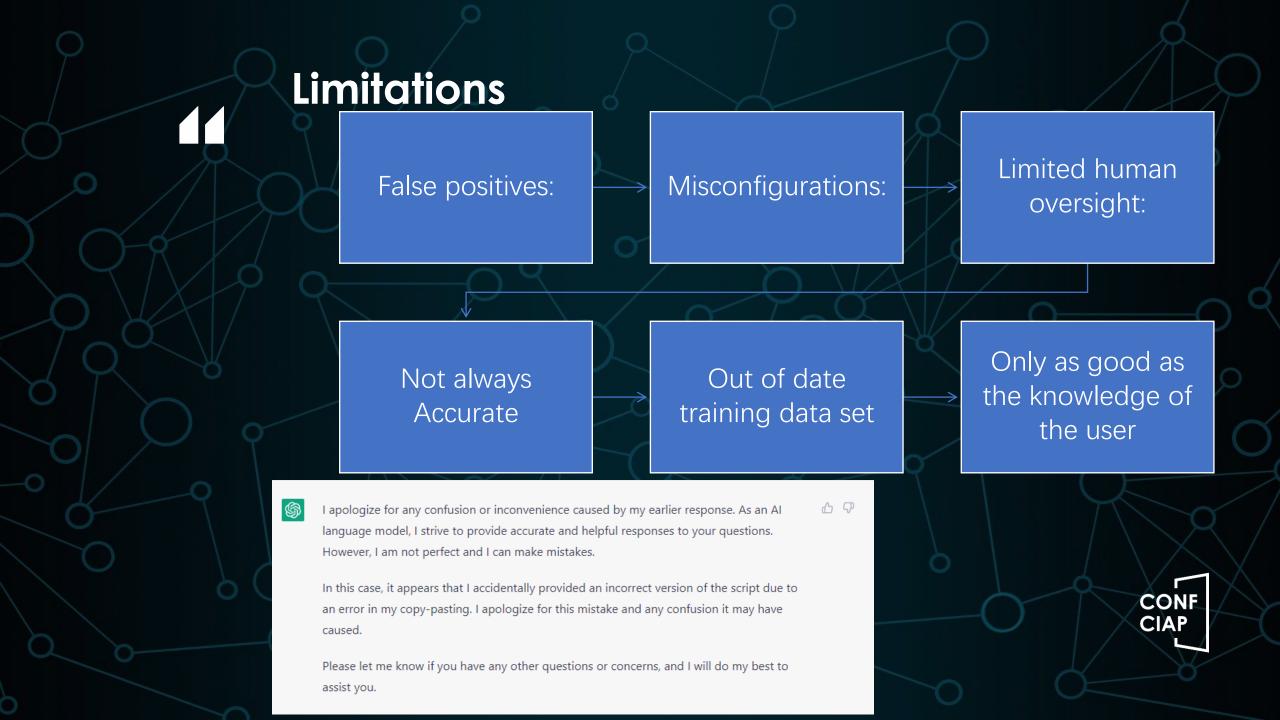
• Identify and exploit weaknesses in human behaviour.

Phishing:

- To generate and deliver convincing phishing emails or messages,
- To interact with the victim to gather information.

Spear phishing:

 To personalize phishing attacks based on specific information about the target, such as job title, company, or interests.



### **Future**

Advancements in ChatGPT technology.

Integration of ChatGPT with other technologies.

Emerging trends in ChatGPT in offensive cyber security:

• ChatGPT-powered virtual assistants to mimic human behaviour and automate social engineering attacks.

ChatGPT is increasingly important in offensive cyber security

Not always improved accuracy and speed in detecting and responding to cyber threats.

It can help automate and enhance social engineering attacks, a common tactic used by cyber criminals to gain access to sensitive information.

Future -It has the potential to transform offensive cyber security techniques and improve overall cybersecurity defences.

