

“Revolutionizing security, where AI changes the game ”

INTRODUCTION:

Artificial Intelligence has had a deep impact on the domain on the domain of security, over the years. As awareness about the cyber attacks has been increasing the need to mitigate these attacks also has been a necessary skill in today's day and age.

With increase in the sophistication of the cyber attacks and limitation in physical security practices , AI contributes in analyzing large amounts of data, and prepares a defense counter ready to tackle the anticipated attack.

Operating on a vast database the AI powered security systems can detect suspicious behavior by reading the pattern of the user .These may include, unusual login times, sensitive data transfers and suspicious IP addresses.

AI powered security system can flag a potential cyber threat before it can escalate to adversely impact the system.

Artificial intelligence uses machine learning models, get information about the possible vulnerabilities that the systems can have, which can be said to have a clear rising edge over the traditional machines which read the virus signatures which are predefined.

As we know that responding to an attack is very important to minimize the damage proclaimed on the systems.AI powered security systems can instantaneously respond to the attacks ,often without the intervention of humans.

This response, for instance can be blocking the malicious IP addresses and alert the security personnel.

Artificial intelligence in vulnerability management:

___Yet another area where AI has its mark is in vulnerability management. As we see the increase in the cyber threats and also the proficiency of the attackers, of the vulnerabilities might go unnoticed by human security teams.

Once these vulnerabilities are detected they can be prioritized according to their severity and how they can be countered. AI has also forced the attackers to come up with newer strategies to breach into the system security.

Setbacks of AI powered security systems in realm of security:

However, while AI has numerous benefits in cyber security, it doesn't come without challenges .

Attackers too use AI to automate attacks, such as phishing schemes and extracting vulnerable port information.

This often leads to an arms race between the defenders and attackers, therefore initiates a dynamic and constant improvement in the AI security sector and field of technology with unimaginable revenue.

Conclusion:

The realm of AI is rapidly transforming, and takes proactive approach towards streamlining the vulnerabilities ,protecting the digital infrastructure and making the digital world more safe.

NAME:AADITYA.V

USN:1RN23CY001