AI Role Analysis in Cybersecurity Sector

Nithya Lakshmi M*

Data Science (Academics), Jigsaw |UNext, India

***Corresponding Author:** Nithya Lakshmi M, Data Science (Academics), Jigsaw |UNext, India.*

As the name suggests, cybersecurity is the process of protecting networks and services from digital attacks. Today, the world relies on networked systems that carry large amounts of information. Cyber threats continue to evolve as unscrupulous hackers wreak havoc on businesses with their malicious behavior. This requires not only stricter cybersecurity laws, but also more vigilant legislation by large and small businesses, government, and non- governmental organizations; They need to be reviewed.

With the cyber sector taking on a major role, more and more cyber security enthusiasts are showing interest in the sector and its applications. Unlike information science and other industries, those working in the cybersecurity industry fear all the threats of cyber threats in order to increase the advancement of cybersecurity for everyone. Talking about the impact of artificial intelligence in cybersecurity is still in its infancy because humans are more capable; when supported by appropriate equipment.

Automatically detecting unknown workstations, servers, code repositories, and other hardware and software on the network are some of the tasks that could be easily managed by AI professionals, which were conducted manually by Cybersecurity folks. This leaves room for cybersecurity officials to focus on more urgent and critical tasks that need their urgent attention. Artificial intelligence can do the leg work of processing and analysing data in order to help inform human decision-making.

AI in cyber security is a powerful security tool for businesses. It is rapidly gaining its due share of trust among businesses for scaling cybersecurity. Statista, in a recent post, listed that in 2019, approximately 83% of organizations based in the US consider that without AI, their organization fails to deal with cyberattacks. AI-cyber security solutions can react faster to cyber security threats with more accuracy than any human. It can also free up cyber security professionals to focus on more critical tasks in the organization.

Challenges faced by ai in cyber security

It says: "There are thieves, there are no thieves." Due to the testing phase, its cost may not be attractive for many businesses. To prevent threats from cybercriminals, organizations need to increase their cybersecurity defenses. Attacks sponsored by terrorist groups aimed at disrupting and damaging online businesses are the main threats to business today. Artificial intelligence is still in its experimental stage, and hackers will find that it is only in its infancy to carry out faster and more advanced attacks. New-age automation-focused applications will definitely eliminate the fragility of the cybersecurity scene.