



## **Cyber Security Awareness Newsletter**

Protecting yourself and information from cyber security threats.

Artificial Intelligence chat/tools and image creators have become increasingly popular since their introduction. The three most popular are ChatGPT, released in June 2020, Bing Chat AI in March 2023, and Google Bard (which is as of this writing currently available in a sudo development phase). These AI tools are public AI tools and can also enhance productivity and aid in basic security measures. On the other hand, it can also be used to destroy productivity and compromise security as well as privacy. We have a duality of views here. This month, we will discuss AI misconceptions, how it can be used to improve productivity and address concerns for safeguarding our data.



First off let's get some misconceptions out of the way:

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It is going to take over my job. All has the potential to automate many tasks that are currently performed by humans, leading to concerns about job displacement and unemployment. However, it is important to note that AI lacks creativity and other human interaction skills such as empathy, compassion, and emotional intelligence. Even though it is called artificial "intelligence," it is still just code - algorithms and logic - that gathers the "best possible" outcomes" from a large dataset to present information to a user.

## **Automation**







Replace human intelligence with artificial intelligence.

Augment human intelligence with artificial intelligence.

While AI can simulate emotions, history has shown that individuals most affected by a tool will typically integrate it into their job function. But no tool should ever be relied on 100%, as there is always a possibility of error, malfunction, or obsolescence. Tools are meant to enhance human capabilities, not replace them. It is important to have a critical and continuous learning attitude when using any tool.

<u>Al will not be biased</u>. Al models can amplify existing biases and discrimination in society, leading to unfair outcomes for certain groups. There is no dataset that will ever 100% satisfy every person. An example bias:

Example: <a href="https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-iduskcn1mk08g">https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scraps-secret-ai-recruiting-tool-that-showed-bias-against-women-iduskcn1mk08g</a>

<u>Autonomous decision-making.</u> There are concerns about the use of AI for autonomous decision-making, including in high-stakes applications such as driving, healthcare, finance, and criminal justice. Those concerns surround accountability, transparency, and ethics. Examples:

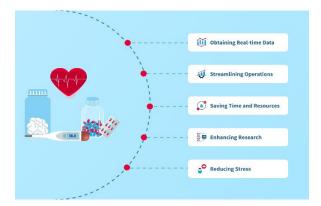
https://www.pbs.org/newshour/nation/regulators-force-tesla-to-recall-363000-full-self-driving-vehicles https://www.nytimes.com/2023/04/10/technology/ai-is-coming-for-lawyers-again.html



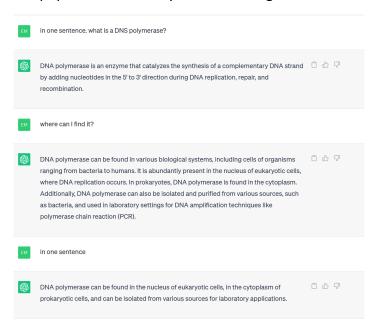
<u>Privacy and security</u>: All can be used to collect, analyze, and manipulate large amounts of personal data, leading to concerns about privacy and security. Large corporations already do this without Al, and Al does this more effectively for them. The major concern surrounding this is when Al is used for malicious purposes. On the other side of the coin, Al can also be used to thwart these just the same.



While there are several valid concerns regarding the use of AI, it is a powerful tool with legitimate uses when used in a responsible manner.



<u>Answering questions:</u> Searching the web to answer obscure questions can be time-consuming, sifting through multiple web pages with varying degrees of relevance. However, the emergence of AI chatbots has made this process much easier by providing specific answers to questions and allowing for follow-up questions to clarify understanding.



All chatbots often give clearer responses than traditional search engines, but it is always important to check how accurate and up to date their information is.

<u>Content Generation:</u> All is a powerful and helpful tool for various creative tasks. This can include creating templates, lists of tasks, generating ideas, rephrasing sentences, or providing a sample draft of an email. All is very helpful in assisting your productivity for these tasks.



<u>Programming Assistance:</u> Fixing issues with code can be difficult. However, AI is very helpful with programming, since it can identify how to fix a specific error, explain what a specific function does, or provide code segments for tasks that are common yet difficult to solve. AI cannot create an entire program, but it is a powerful programming tool.

## **Using AI Safely**



WHEN YOU TRAIN PREDICTIVE MODELS ON INPUT FROM YOUR USERS, IT CAN LEAK INFORMATION IN UNEXPECTED WAYS.

Following two simple rules will assist you in safely using AI.

**No private data:** Sensitive information such as PHI and RHI should not be put into public AI due to privacy concerns. Attackers can exploit AI systems to observe their behavior and uncover information that was previously used in them. For instance, in 2016 University of Washington researchers recovered the photos used to train AI to identify objects. These concerns are why many major companies have banned the use of AI, fearing leaks of confidential data.

<u>Think before using:</u> While AI has improved over time, it is far from perfect. While chat AI may be able to talk like a real person, it lacks full context, and can potentially give answers that are factually false. When using AI, always verify for accuracy.



The popularity of AI chat/tools and image creators, such as ChatGPT, Bing Chat AI, and Google Bard, has grown significantly in recent years. These tools offer opportunities to enhance productivity and address basic security measures, but they also carry risks of compromising productivity, security, and privacy. It is crucial to address misconceptions surrounding AI and recognize its role as a tool to augment human capabilities, while also ensuring responsible and critical use to unlock its benefits by safeguarding against biases, autonomous decision-making concerns, and privacy and security risks.