ARE WE OBSOLETE? The Dangers (and Advantages?) of Artificial Intelligence and Technology **Cybersecurity:**

to focus on technology awareness and the moment you wake up to the last news feed your check before you go to bed." tasks one can complete to protect their

importance of protecting one's personal online presence has also come to the

Artificial Intelligence

Bhavin Patel, director of technolo-

Many students own their

"I don't think it's going to take 30-

Whether it be medicinal, education-

s technology contin- the form of "deepfakes." These deepues to develop in our fakes can be seen impersonating many ever-growing modern influencers and celebrities, creating world, the time comes where we say videos of them saying false information. goodbye to outdated technology, and welcome this year's newest online trends. gy, said, "I have been working with tech-

The biggest theme being brought nology professionally for over 25 years, into the future is bridging the phys- and the evolution of technology has been ical and digital world. With imple- night and day since I started working. I mentation of artificial intelligence in used to teach workshops in college just healthcare and social media, it is be- to show students how to use email and coming less robotic and more human. the internet. Back then, it wasn't a social,

Several types of AI are already be- interconnected tool, it wasn't about data ing employed by payers and providers harvesting. I think if users of the interof care, and life sciences companies. net continue to use it this way, then it The key categories of applications in- will continue to grow. However, if the volve diagnosis and treatment recompeople collectively say I don't want to put mendations, patient engagement and as much of myself out there, then it has adherence, and administrative activities. to scale down or adjust. So I think that Although there are many instances in it all comes down to responsible use." which AI can perform healthcare tasks as well or better than humans, imple- own social media accounts, including mentation factors will prevent large- Snapchat, Instagram, and Tiktok, all scale automation of healthcare profes- of which include some form of video

sional jobs for a considerable period. communication, prompting opportu-AI has already been implemented nities for stolen identity through AI. during minimally invasive surgeries, assisting a human surgeon which has re- 50 years for AI to take off. AI is already sulted in decreased surgical errors, and here. Even if it's just asking your phone increased patient recovery, but the full 'hey siri, what is my favorite color', it will transition to surgical robotics has yet to probably look through your photos to see

be fully explored due to ethical impli- what color you wear the most and tell you cations, such as sudden malfunctions 'Your favorite color is green," said Patel. during surgery performance, or AI's lack of knowledge of human functions. al, or personal use, artificial intelligence AI is also taking over the inter- has already infiltrated many aspects of

net: due to modernized technology, AI is our everyday lives. The consequences of now being used all over social media in its use have yet to be determined as pos-

Introduction

Students visit a campus once or twice a of his article, the tone it exhibits is remiweek for personal consultations or for lab niscent of that of dystopian novels; human work that has to be done on site. Progress interaction is replaced by internet presof each student is followed by a comput- ences and human workers are replaced by er, which assigns end term marks on the robots. Compared to Berry's time, todays' basis of tests given throughout the term. world is more advanced as tasks are made Now, nearly 60 years later, with the easier and more efficient by technoloaftermath of the COVID-19 pandemic still gy, but what are the implications of this?

n 1968, American novelist Jim tone for many students across the globe Berry predicted the following in as online learning took over the past panhis article "40 years in the Future": demic years. Alongside this, Berry also Most schooling - from first grade correctly predicted online shopping, credthrough college – consists of programmed it cards, Apple Pay, vacuum robots, and TV courses or lectures via closed circuit. more. However, reading through excerpts

in effect, this prediction rings a familiar

Autonomous & Automated

tinues to invade jobs formerly oc- relationship between job loss and robot takeover. In a recent 2022 study by Socius: Socio-As many businesses and corporations of workers say they've seen their job replaced

Many services have already been grocery stores opened in 2018, prompting a automated: customer service, data ennew system of buying produce. A highly pro- try, market research analytics, and mangrammed system was implemented into the ufacturing are nearly fully autonomous. But what people don't understand is that pers' movement, weights items in their shop- automation creates jobs. For example, the impleping cart, and automatically pays for every- mentation of ATM machines lowered the costs of thing on an app, eliminating checkout lines. opening new offices, leading to an increase in new But there is concern of allowing tech- offices, and allowing more employees to be hired. While autonomous programming and

bers, address, and other personal information. automated machinery is being implemented Many people fear the rampage automated into the routine tasks of jobs, it is allowing furmachinery is taking on many occupations. There ther development in numerous fields of work.

s autonomous technology con-seems to be an unspoken consensus about the Cupied by humans, we begin to askourselves: are human jobs becoming obsolete? logical Research for a Dynamic World, only 14% realize the capabilities and efficiency of robot- by automatic machinery. Workers who have alic applications, we begin to see the fear of ro- ready been replaced with robots estimated that bots taking over the world begin to come true. 47% of all jobs have been taken over by robots. Amazon's breakthrough unmanned

grocery store's technology that tracks shop-

nology to have access to your credit card num-



Keeping your online presence safe

rom spam risk calls, to forefront of many recent discussions.

texts congratulating you From online shopping to creating a new on a thousand dollar lot- email account, users are inputting their tery win, to a new friend on Snapchat personal information into the internet who appeared out of the blue, the prac- on a regular basis. This information is tices of illegal activities increase with then exposed to those who might be the advances of the technological world. strolling through your page with a faulty Especially in recent years, cybersecuri- intent. Patel said, "You have your real ty has become an increasingly hot topic self, and you have an online self. People as well as a high-demand profession. need to be aware of the kind of infor-Walmart, the grocery store chain mation they are sharing online. One which has claimed the top place in For- thing that gets missed is asking yourtune's Global 500 list for the 9th year self 'why are these social media apps in a row, has placed emphasis on its on- and services free of charge?' You really going cybersecurity investments. With are giving them yourself for free. You over 200 million weekly online shop- are giving them your joy, pain, fears, pers, it turns to automated technologies goals, and vulnerability - everything for the protection of their customers. about yourself. So, I encourage peo-At Masters, the technology team ple to have an inventory of what they has also been faced with cybersecurity have shared about themselves out there tasks as the internet developed. In par- on the internet because once it's out ticular, Head of Technology Depart- there, you have no control over where ment Bhavin Patel, expressed his desire it does and you cannot take it back."

Dayan Battulga, senior and memeducation in the future. Patel said, "I ber of the Masters cybersecurity team, believe that cybersecurity education is also warned against cybersecurity breachkey. It is imperative for both students es that may result from a single click. and parents to understand the impli- "Accept only necessary cookies, build cations behind having a smartphone. up your fire wall, don't go to suspicious Technology is a part of our world; from websites, and things like that," he said Perhaps even beyond the physical

As nations, corporations, schools, online presence, Patel believes the most and many other organizations place a important factor in protection against heavier emphasis on cybersecurity, the technology is being a responsible user

"Green" screen

more. To combat this, a rise in "green" tic bottles to create said cartridges. technology is being seen taking over

many corporations and businesses. light efficiency and accessible solar powes and fosters economic and social devel- and energy consumption. These changes opment. The goal of these technologies is have the possibility to be implemented to reduce environmental and ecological into the Masters community as the popurisks and to create a sustainable product. larity of sustainability continues to grow. But in 2021–2023, a glob-

al energy crisis began in the after- to revolutionize our public transportain 2021, with much of the globe reducing carbon emissions, increasing es in oil, gas and electricity markets. terials, companies are able to use their re-

Oftentimes, the scale and conse- schools, and individuals have begun to quences of being online could be lost in recognize and place emphasis on the the convenience of picking up your phone topic in recent years. Battulga also recand posting within a handful of clicks. He ognized the disparity between cybersaid, "If you wouldn't be willing to be security measures in the United States judged in a room full of 20 strangers, and other nations with less advanced how are you willing to be judged by the technologies. However, he is optimistic entire world on the internet? This scale when speaking about the future of cyberof where your information goes and to security. He said, "I think it is definitely whom it reaches is lost with the internet." going to become much better. Tech-Although cybersecurity may be nology is improving, cybersecurity will a concern in the current world of ev- not only stop hackers but also prevent er-advancing technology, corporations, plagiarism and probably much more."

> nother thing we are Yet, many corporations and seeing an increase in businesses are working towards cre-

is the destruction of ating more sustainable products. our environment. Increased carbon Companies such as Dell and emissions from motor vehicles, light HP are revamping their approach to pollution from overpopulated cities, computer manufacturing by recycling destruction of nature to provide new ink and toner cartridges, and have factories and buildings, and much reused more than 4.7 billion plas-

Other approaches, such as LED Sustainable technology describes er, are smaller steps that make a big difinnovation that considers natural resourc- ference in decreasing use of electricity Green technology has the potential

math of the COVID-19 pandemic tion and systems. Through steps such as facing shortages and increased pric- use of biodegradable and renewable ma-

ALEXA MURPHY

News Editor

Some of the ways AI could impact

WRITTEN AND DESIGNED BY ELLIE YANG & MAIA BARANTSEVITCH

Q: What jobs will be replaced by technology in 10 years?

- **#1 Warehouse workers**
- #2 Cashiers
- **#3 Customer service**
- #4 Parking garage jobs
- **#5 Teachers**

Q: What items will be replaced by technology in 10 years?

#1	Printed textbooks	
#2	Paper money	
#3	Physical newspapers	
#4	Home phones	
#5	Gas stations	

Al presents promise and threat In the community

ty in schools everywhere. Launched pany co-founded by Elon Musk.

regarding the safety and accuracy of content, access to ChatGPT is

The Masters administration rise in student use of AI has raised dents will write it and then can't on November 30, 2022, ChatGPT has not yet released comments re- concerns similar to those expressed find the correct answers. In this is a chatbot which engages with garding the role of ChatGPT, or by the New York City School case, they can do it within a coding users casually and conversational- AI more broadly in our commu- Board; namely, that ChatGPT is platform to get answers directly, ly, answering complex questions nity, But its silence on the matter a tool which helps students en- instead of analyzing lines of code." with supposedly the same ease as should by no means indicate a lack gage in academic dishonesty. AI is expected to soon affect a human interlocutor. The service of engagement with AI technol- History and Religions teacher nearly every aspect of human life, was developed by OpenAI, a com- ogy among students and faculty. Brendan Collins-Jordan said, "You which means that it is decidedly In fact, students have turned knowit's funny. In some ways I don't up to the Masters community to As of January 6, ChatGPT to AI, most provided for by the think it's that different [plagiarism figure out how or how not to carve has been banned across New free OpenAI company, to assist vs. extracting work from AI], actual- space for AI in to the classroom. York City public schools. them in myriad academic tasks. ly. In some ways it's really the same And perhaps, within these lines of New York City education Because of ChatGPT's conver- thing as if someone paid someone to 1s and 0s, there lies a real chance spokeswoman Jenna Lyle said, "Due sational nature and crisp writing write an essay for them, except it's a for educational improvement. to concerns about negative impacts style, the most prevalent of its computer doing it, and it's free. And on student learning, and concerns uses has become essay writing. you can sort of catch it via the same One Upper School student, mechanisms, and the biggest way is

restricted on New York City Pub- who preferred to keep their iden- just as teachers we know what a stulic Schools' networks and devic- tity private, said "This fall they dent's writing sounds like, and we es. While the tool may be able to came out with ChatGPT and I start- know when we get a paper that really provide quick and easy answers to ed using it for simple English as- sounds nothing like that student." questions, it does not build crit- signments, like paragraph here, But many teachers and stu-Artificial intelligence (AI) has ical thinking and problem-solv- paragraph there. It's not good at dents alike see AI as less of a threat the potential to significantly impact ing skills, which are essential for variation of tone and style, so I'm and more of an educational tool, education in a number of ways. academic and lifelong success." not going to submit an entire es- and it's important to note that as The response by the New York say written solely by ChatGPT, but AI expands in scope, so too do its education include: Personalized City Education Department came it's good for giving you ideas, or it potential uses. Just as AI can be learning, tutoring systems, automat- quickly, but the consequent back- can give you a paragraph, and you used to help a student proofread ed grading, and content creation. lash came even quicker, as many can edit it and make it your own." a paper, it can help a teacher fill However, it is important to note that AI sympathizers highlight that Of course, the development in an end-of-semester comment, AI is not a silver bullet solution and there are perhaps more produc- of AI has opened students up to a or demonstrate a model essay. its implementation will need to be tive ways to respond to the issue world of (albeit often morally ques- "I don't see this as a tool that's carefully evaluated to ensure that it of plagiarism than outright pro- tionable) opportunities to aid their 100% a problem," said Collins-Joris meeting the needs of students and hibition of the new technology. academic endeavors. AI doesn't dan. "One thing I played around "When faced with a threat," exist in a ChatGPT vacuum, and with is can you, like, fine-tune an said John Chiodo, Director of the many have discovered other uses for essay with this. It actually works hat was ChatGPT's IEC, "big organizations often put up new technologies in their studies. pretty well for that. So one thing response to the a barricade, then figure it out. And Another anonymous Upper that I've been thinking about is, I question, "How that tool that figures out whether School student reported, "I think do think it could be an interesting will AI affect ed- text is written by an AI or not, that's that what's been the most benefi- tool to teach writing with, in that ucation in the coming years?" free. As much as AI may be improved, cial for me has been submitting my you have to know what to look for The rapid advancement of AI there will always be technologies and writing into AI and having it shoot to fix it, and it can show you what a technology is likely to have major softwares able to detect cheating." back feedback, or sometimes I'll fix looks like. So I think it does have Chiodo refers here to GPTZero, ask it for comments on what I'm do- some pedagogical value as a tool that lead our daily lives in the imminent a software launched on January 2nd ing or for it to grade my work. I've teachers can use in the classroom." future. Teachers and students alike which can easily identify whether given it characteristics of teachers There are also countless must adapt to a world where AI is an essay was written by a student or to build feedback that I can expect options to increase application more prevalent than ever before, an AI. The software is free, and was to receive, and what I've found is of AI in STEM instruction, and and choose whether the forthcoming created by Edward Tian, a computer that it's immensely helpful to proof- Mr. Chiodo explains that there technology revolution will change science major at Princeton Universi- read for not just grammatical er- is particular room for growth in education for the better or worse. ty. In creating the software, Tian has rors but for content as well, which the realm of computer science. ChatGPT, for example, has explained that he hoped to curb con- is unique to this new AI program." He said, "Teaching students posed a threat to academic integri- cerns of AI plagiarism in academia. Among faculty members, this how to code, I find that often stu-

the education system as a whole.

implications for the way we will

