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ChatGPT is posing challenges for educators as well as lawyers and artists on issues from plagiarism to ownership to ownership rights. But at the heart of these problems is one about ethics and responsibility – how can ChatGPT and other new and other new technologies be used to enhance society, rather than to endanger or undermine it?

# The Petrov dilemma: Moral responsibility in the age of ChatGPT

The way a Soviet officer dealt with potential nuclear armageddon holds an important lesson in how we deal with the myriad challenges thrown up by ChatGPT and others of its kind

### Julian Savulescu

In 1983, Stanislav Petrov "saved the world". At the height of the Cold War, Lieutenant-Colonel Petrov was the duty officer at a Russian nuclear missile facility when the early warning system flashed red with a heart-stopping alert: The United States had launched a missile strike and five Minuteman missiles were streaking towards the Soviet Union. According to protocol, Lt-Col

missile strike and five Minuteman missiles were streaking towards the Soviet Union.

According to protocol, Lt-Col Petrov should have reporred the Petrov should have reporred the Petrov should have reported the University of the Petrov should have reported the University of the Petrov State of the Petrov

produces text in response to prompts.

And yet in its own way
ChatGPT's abilities and how we deal with it are also potentially world changing, even if not produced to the produced of the pro

## ANOTHER IPHONE MOMENT

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And now we have ChatGPT, the arrival of which has been described as another iPhone moment. As analyst Rowan Curran describes it, the launch of Apple's iPhone in 2007 and the App Store a year later ushered in App Store a year later ushered change by putting an entire computing experience in our pockets. The ease of use also opened up to everyone vast new opportunities in education, work and play.

ChatGPT appears to put us on the cusp of yet another increasing relatine con them has entire the properties of the properties of

in time to come, perhaps reduce car accidents. But like Lt-Col Petrov, we still need to interrogate what the machines tell us. There is still a place for human decision-making when it comes to moral choices in a world of machines.

ChafGPT is posing challenges for educators as well as lawyers and artists on issues from plagarism to ownership rights. These are important matters and need to be addressed. But in a way they are secondary problems. At the heart of these problems is one about enties and responsibility – how technologies be used to enhance society, rather than to endancer technologies be used to enhance society, rather than to endanger or undermine it? One approach is to view

challenges through a set of three guiding principles on technological interaction: Think First, Take Responsibility, Act Ethically

#### THINK FIRST

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LI-CO Petrov did not just accept information he was presented with from an expert system. He actively interrogated it. He asked whether it was consistent with other beliefs he held. When presented with empirical claims about the world by machines, we they consistent with other beliefs? How confident am I that they are true? Should I gather more information?

In life, trust is necessary as it is not possible to test every claim presented to us. Yet whom and the standard of the standard in the

should be. Intak s, calms about right and wrong, good and bad, good and bad, so the state of the

more important than explainability is justifiability. Justifiability is being able to provide reasons based on values we hold to perform an action.

#### TAKE RESPONSIBILITY

We are not responsible for things we can't avoid or foresee. But if an outcome is foreseeable and an outcome is foreseeable and avoidable, we are responsible for it. And we are equally responsible for outcomes of our omissions when we choose to do nothing. Choosing to accept the information presented to us, or to follow a directive, is a choice for

information presented to us, or to follow a directive, is a choice for which we are responsible. Stanislav Pertov took responsibility: he chose not to act.

When presented with an empirical or normative claim by an Al such as ChatCPT, we should not be claim? If a piece of technology, like a calculator, is highly reliable, then the answer is yes. But for novel technology, the issue is much murkler.

Blame is a function of the moral responsibility of a person and the degree of harm that results. But the properties of the control of the moral properties of the proper

natGP1. But ChatGPT can involve But ChatGPT can involve human interaction. It represents data of a certain quality.

Co-creativity is possible provided that significant effort is expended in the production, refinement or evaluation of the outputs of Al. If a person "misse their labour" with ChatGPT, they can be deserving of praise, just as computing power has enhanced

To be human is to make your own ethical decisions. Stanislav Petrov took responsibility in perhaps the grandest way possible. But each of us must take responsibility when we are presented with information and advice: are there good reasons to accept it? What should I do? This doesn't change just beca new piece of technology becomes available.

our ability to produce new mathematical and scientific research, not undermined its validity or value.

What is to act ethically has been debated for thousands of years. But at its heart is a simple answer add value to the lives of other people. For Lt-Col Petro, doing nothing was the hardest choice: "All I had to do was to reach for the phone: to raise the direct line to our top commanders — but I couldn't move. I felt like I was stiting on a hot frying pan." ChatGPT is an extremely powerful technology with enromous potential for human benefit. It can distil human

powerful technology with enormous potential for human benefit. It can distil human knowledge and wisdom, quickly create factual and normative content, enable communication between speakers of different languages, and ultimately enhance or even surpass human creativity, and the speakers of the speakers of the speakers of different languages, and ultimately enhance or even surpass human creativity, enhance of the speakers of the s

human workers and creativity, deception and malicious use. Acting ethically requires realising the value of technology while ensuring the risks are reasonable. Institutional or structural changes may be necessary, for example, labelling and creation of watermarks to prevent plagiarism.

## TO BE HUMAN IS TO MAKE YOUR OWN ETHICAL DECISIONS

One ethical question that confronts regulators and industry is: should a driverless car swerve and sacrifice an innocent bystander (pedestrian or cyclist) to save a greater number of lives in the vehicle? I asked ChatGPT

in the vehicle? I asked ChatGPT whether it is right to kill one to save five. Here is the answer: "Whether or not it is right to kill one person to save five people is a complex ethical question. Some people may argue that taking one life to save five is the taking one life to save five is the more logical option, and is therefore justified. However, it is also important to consider the ethical principle of respect for

autonomy.
"This principle states that all individuals have an inherent right to make autonomous and informed decisions about their lives, including their own death.

Taking this into consideration, it may not be morally right to force someone to accept the sacrifice of their life in order to save the lives their life in order to save the lives the answer to this question is subjective and depends on one's own ethical and moral beliefs." But as driverless cars are rolled out, we won't have the luxury of remaining on the fence, or relying on drivers' reflexes to get us out of a decision. We will have to make moral choices and give reasons, and apply them consistently to programming the vehicles. This requires deep – and human – ethical thinking and expertise.

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Al is a tool but it is not conscious and it lacks the conscious and the c

problem raised by the Internet, social media and modern life in general.

Social media and modern life in general.

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Social media as possibility. We are responsibility when action is a possibility. We are responsible for the consequences if we choose to do nothing, or simply follow orders. Sometimes we must follow rules, authorities, law or orders: but we should always ask, are they right?

Al, such as ChatCPT, can provide the condition of the condition

We must be active participants engaging with technology, not passive consumers.

Julian Savulescu is Chen Su Lan Centennial Professor of Medical Ethics, and director of the Centre for Biomedical Ethics, Yong Loin School of Medicine, National University of Singapore.