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By SERINA DESALVIO

Who's training whom?

We train AI, but AI might be training us, too, US researchers find.

MANY artificial intelligence (AI) systems are "trained" by interacting with human behaviour and human-created information.

Now, Washington University researchers have found that humans change their own behaviour when they know their actions are being used to train AI.

And not only do people change, but those changes can last into the future - creating new habits in the human trainers.

And tendencies or biases in a person's behaviour, including those the person isn't even aware of, can change, too.

So, who is training whom, here?

"This study clearly shows us that we need to understand these behaviours of people interacting with AI, specifically when they are helping train these tools, so that we can measure that bias and mitigate it," said Dr Philip R.O. Payne, director of the WashU Institute for Informatics and a professor of medicine.

But there could be a downside to people improving their behaviour if their actions are being used to train AI.

Lead researcher Lauren Treiman, a WashU graduate student, said that if people were helping train an AI for self-driving cars, for example, they might drive especially carefully. This might make the AI a perfect driver.

However, in a place like St Louis where people often run short yellow lights, it might be more dangerous for a self-driving car to try to be the perfect driver.

"AI might need to learn to run yellows, if that's what people tend to do," she said.

Algorithms all around

Treiman said she first started thinking about the effects of how AI is trained and the algorithms that determine what we see online, while scrolling through her social media feed.

"When you get 'recommended' videos, the algorithm can be super sensitive," she said.

"Sit on something for a few seconds, and you see content just like that over and over again."

She said she'll intentionally swipe past something quickly, or not click on it at all, so that social media algorithms learn to show her less of that kind of content.

The experience, changing her own behaviour in response to AI, inspired experimentation.

The researchers used

icon from the screen of the AI-training group to help people feel a little less like they were being watched.

Still, "people were willing to sacrifice reward to make the AI more fair", said Chien-Ju Ho, a researcher and assistant professor of computer science and engineering at WashU.

'Patterns of persistence'

All these experiments make a robust case for humans changing their behaviour when they train AI, but the three researchers agreed the most interesting thing is how long that behaviour change lasted.

"Kool said the initial experiment only took around five short minutes. Participants came back two or three days later and played the same way they had in the first session, even after being explicitly told they were no longer training an AI.

"Looking at the behaviour in the second session, we saw these really beautiful, clear patterns of persistence of behaviour," Kool said.

Treiman said the findings have potential to shape how AI is trained - and raise other questions.

"In the *Ultimatum Game*, there's a clear definition of fairness. But, in a lot of other circumstances, there's not a clear definition," Treiman said.

"You always want to get the most fair, honest AI you can.

"But in other situations, what is fair? Especially since people will instill their preferences, biases or beliefs into the AI systems they are training," - St. Louis Post-Dispatch/Tribune News Service



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