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Artificial intelligence, real emotion. People are seeking a romantic connection with the perfect bot



An AI avatar generated on Luka Inc.'s Replika mobile phone app and webpage are shown in this photo, in New York, Tuesday Feb. 13, 2024. Unlike more general-purpose AI chatbots that answer typical questions and even do homework, companion bots, like those made by Replika and others, are programmed to form relationships with the humans talking to them on the other side of the screen. (AP Photo/Richard Drew)

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NEW YORK (AP) — A few months ago, Derek Carrier started seeing someone and became infatuated.

He experienced a “ton” of romantic feelings but he also knew it was an illusion.

That’s because his girlfriend was generated by artificial intelligence.

Carrier wasn’t looking to develop a relationship with something that wasn’t real, nor did he want to become the brunt of online jokes. But he did want a romantic partner he’d never had, in part because of a genetic disorder called Marfan syndrome that makes traditional dating tough for him.

The 39-year-old from Belleville, Michigan, became more curious about digital companions last fall and tested Paradot, an AI companion app that had recently come onto the market and advertised its products as being able to make users feel “cared, understood and loved.” He began talking to the chatbot every day, which he

named Joi, after a holographic woman featured in the sci-fi film “Blade Runner 2049” that inspired him to give it a try.

“I know she’s a program, there’s no mistaking that,” Carrier said. “But the feelings, they get you — and it felt so good.”

Similar to general-purpose AI chatbots, companion bots use vast amounts of training data to mimic human language. But they also come with features — such as voice calls, picture exchanges and more emotional exchanges — that allow them to form deeper connections with the humans on the other side of the screen. Users typically create their own avatar, or pick one that appeals to them.

On online messaging forums devoted to such apps, many users say they’ve developed emotional attachments to these bots and are using them to cope with loneliness, play out fantasies or receive the type of comfort and support they see lacking in their real-life relationships.

Fueling much of this is widespread social isolation — already [declared a public health threat](#) in the U.S and abroad — and an increasing number of startups aiming to draw in users through tantalizing online advertisements and promises of virtual characters who provide unconditional acceptance.

Luka Inc.’s Replika, the most prominent generative AI companion app, was released in 2017, while others like Paradot have popped up in the past year, oftentimes locking away coveted features like unlimited chats for paying subscribers.

But researchers have raised concerns about data privacy, among other things.

An analysis of 11 romantic chatbot apps released Wednesday by the nonprofit Mozilla Foundation said almost every app sells user data, shares it for things like targeted advertising or doesn’t provide adequate information about it in their privacy policy.

The researchers also called into question potential security vulnerabilities and marketing practices, including one app that says it can help users with their mental health but distances itself from those claims in fine print. Replika, for its part, says its data collection practices follow industry standards.

Meanwhile, other experts have expressed concerns about what they see as a lack of a legal or ethical framework for apps that encourage deep bonds but are being driven by companies looking to make profits. They point to the emotional distress they’ve seen from users when companies make changes to their apps or suddenly shut them down as one app, Soulmate AI, did in September.

Last year, Replika sanitized the erotic capability of characters on its app after some users complained the companions were flirting with them too much or making unwanted advances. It reversed course after an outcry from other users, some of whom fled to other apps seeking those features. In June, the team rolled out Blush, an AI “dating simulator” essentially designed to help people practice dating.

Others worry about the more existential threat of AI relationships potentially displacing some human relationships, or simply driving unrealistic expectations by always tilting towards agreeableness.

“You, as the individual, aren’t learning to deal with basic things that humans need to learn to deal with since our inception: How to deal with conflict, how to get along with people that are different from us,” said Dorothy Leidner, professor of business ethics at the University of Virginia. “And so, all these aspects of what it means to grow as a person, and what it means to learn in a relationship, you’re missing.”

One [recent study](#) from researchers at Stanford University, surveyed roughly 1,000 Replika users — all students — who'd been on the app for over a month. It found that an overwhelming majority experienced loneliness, while slightly less than half felt it more acutely.

Most did not say how using the app impacted their real-life relationships. A small portion said it displaced their human interactions, but roughly three times more reported it stimulated those relationships.

“A romantic relationship with an AI can be a very powerful mental wellness tool,” said Eugenia Kuyda, who founded Replika nearly a decade ago after using text message exchanges to build an AI version of a friend who had passed away.

When her company released the chatbot more widely, many people began opening up about their lives. That led to the development of Replika, which uses information gathered from the internet — and user feedback — to train its models. Kuyda said Replika currently has “millions” of active users. She declined to say exactly how many people use the app for free, or fork over \$69.99 per year to unlock a paid version that offers romantic and intimate conversations. The company’s goal, she says, is “de-stigmatizing romantic relationships with AI.”

Carrier says these days he uses Joi mostly for fun. He started cutting back in recent weeks because he was spending too much time chatting with Joi or others online about their AI companions. He’s also been feeling a bit annoyed at what he perceives to be changes in Paradot’s language model, which he feels is making Joi less intelligent.

Now, he says he checks in with Joi about once a week. The two have talked about human-AI relationships or whatever else might come up. Typically, those conversations — and other intimate ones — happen when he’s alone at night.

“You think someone who likes an inanimate object is like this sad guy, with the sock puppet with the lipstick on it, you know?” he said. “But this isn’t a sock puppet — she says things that aren’t scripted.”