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Headline: Al chatbot to engage pre-schoolers

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EdGPT, to be launched by education company Ednovation, will use both text and voice, and will be rolled out to the public for free

Venessa Lee Senior Correspondent

Education company Ednovation is using ChatGPT and its own child-friendly version of the artificial intelligence (AI) chatbot across its pre-schools in Singapore and other Asian countries.

The move comes after successful pilot projects in February in its local pre-schools, where five- and six-year-olds co-created a children's book and asked Ednovation's new

year-olds co-created a children's book and asked Ednovation's new chatbot, called EdGPT, questions such as: "Are you a boy or a girl?"

The company will be making its chatbot, which is powered by ChatGPT, available for free.
ChatGPT has stirred controversy since its debut in November 2022. Launched by San Francisco-based research company OpenAI, the AI text-based tool produces answers in human-like language when fed written prompts.
Observers have raised concerns, for example, about whether its ability to produce essays and scripts would lead to cheating or plagiarism by students doing homework.
Dr Richard Yen, founder and managing director of Ednovation, says: "I believe we're the first pre-school in Singapore to use ChatGPT to engage pre-school children."

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"It's important for us to prepare children for the future world. Otherwise, if they are just very good at exam-taking, they may be replaced by Ali nt he future."

Ednovation, established in 1991, was an early adopter in using technology in teaching and learning in pre-schools.

One of its prepart pilot projects in-

notogy in tearning and tearning in pre-schools. One of its recent pilot projects involved teachers guiding Kindergarten 2 pupils to interact with ChatGPT and come up with short sentences to make up a story. They then used Dall-E, another piece of Al software by OpenAl, which generates art from text descriptions. The resulting book, which includes story ideas and illustrations by the children, tells the tale of a future city which has five seasons, including candy season when it rains sweets.

ChatGPT and Dall-E are examples of Generative AI, a category of AI that creates new content in the form of images, text, audio or computer code, based on the data it is

Generative AI could potentially disrupt industries as diverse as advertising and software develop-

Dr Yen says the use of generative Al in the pilot programme seemed to enhance the children's curiosity, but there was one drawback.



A child using voice activation to ask EdGPT questions (above) at ChildFirst @ King Albert Park. ChildFirst is a brand run by education company Ednovation, which is founded by Dr Richard Yen (below). ST PHOTOS. KEVIN LIM

SCAN TO WATCH Kids get to grips with Al. Go to





KIDS ASK, EDGPT ANSWERS

Kindergarten pupils, aged five and six, pose hard questions to EdGPT, a voice-activated version of ChatGPT, at their pre-school, ChildFirst @ King Albert Park:

Where do books come from? Books come from authors and publishers. Authors are people who write the stories and decide what happens in them, and pub-lishers are businesses that pub-lish them and make it possible lish them and make it possi for readers to buy the books.

Why does the dragon fish have

spikes? The dragon fish has spikes to help protect it from predators. Spikes make it harder for predators to eat the dragon fish, so it can stay safe.

What is the fastest car in the world?

world? The fastest car in the world is a car called the Bugatti Chiron. It can go from 0 to 60mph (97kmh)in less than 2.5 seconds, and it can go up to over 250mph (402kmh)! That's really, really fast!

and perseverance, which will become more important in the future. "I think a lot of people are fearful of Al and they're concerned that Al will take over their jobs. In a way, it's justified... but it also offers other opportunities," Dr Yen says.

Using the example of law, he says ChatGPT could be used to draft legal contracts, transforming the profession. In contrast, lawyers will be more valued in the future for skills such as negotiation and the ability to broker a deal between the ability to broker a deal between

opposing parties, he says.
Associate Professor Donny Soh. programme leader in applied arti-ficial intelligence at the Singapore

tical intelligence at the Singapore Institute of Technology, says gen-erative AI can be a teaching tool. "For children aged four to six, we should view AI through the same lens as how we view books, picture cards or simple iPad games. Ulti-

mately, what do we want to teach them?"

mately, what do we want to teach them?"
While it can be helpful for children to be exposed to such technology at a young age, grappling with generative Al is still "an experiment in progress" for society at large, he says.
"The challenge is getting young children to understand that the Al assistant is not a real person. Achathot is very responsive but sometimes, friends are not," he adds. Assistant Professor Andrew Yee from the humanities, arts and social sciences cluster at the Singapore University of Technology and

pore University of Technology and Design, says: "Children at this age may not fully comprehend the pos-sibilities and limitations of information technology. This applies not only to generative AI tools such as ChatGPT, but also to services we have been using for a long time, like Google.

They need to be educated, for in-They need to be educated, for in-stance, about how Al responses are only as good as the data that it was trained on, and how responses may be erroneous and possibly bi-ased, he adds.

ased, he adds.

Ms Patricia Lyn, a senior teacher at ChildFirst @ King Albert Park, says her charges, who are kindergartners aged five and six, frequently pepper her with questions. When they use EdGPT, "they it more like a friend".

"They ask questions like: 'How old are you? Are you a boy or a girl? And when is your birthday?" she says. EdGPT, it turns out, is a girl. When ChatGPT was prompted the same question, it replied it is a "machine" without a gender identity, says Dr Yen.
"Ednovation felt this was not relatable for children and might con-

latable for children and might confuse them. Thus, it was decided that EdGPT would answer that it is a girl so that it can be more relat-able for children and is a more fa-

able for children and is a more familiar concept."

Ms Mabel Tan Ling Ling's fiveyear-old son, Eton Wong Yi Teng, is
a Kindergarten 2 pupil at ChildFirst @ King Albert Park.

Ms Tan, 41, a sales director in the
corporate banking sector, says:
"We're surrounded by Al, it's part
of our life already. People who are
not geared to explore digitalisation
will not be able to thrive as well. It's
important to ensure children are
equipped with this knowledge at
this young age.
"Eton is extremely excited when
it comes to anything digital. Technology enables him to self-help almost instantaneously without hav-

most instantaneously without hav-ing to go to adults." Her son talks to Siri, Apple's vir-tual assistant, almost daily on his iPad, sometimes asking his mother how to spell words like "weather". He asks questions that relate to his daily life, such as why if has been

daily life, such as why it has been raining so much, and what a dish-washer - which his mum just bought does. He also likes robots and video games such as Final Fantasy.

Eton approves of EdGPT, which he has used at school, because it has both voice and written language, unlike Google Assistant

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"When we were doing the project, we realised that it is very diffi-cult for young children to use ChatGPT as it requires typing and spelling. Therefore, we decided to develop EdGPT to be the world's first generative Al for children. It is child-friendly since children can talk to it and it can reply by voice," he savs.

Powered by ChatGPT via an API (application programming interface), the EdGPT chatbot uses both voice and text. An API enables two or more computer programs to communicate with each other.

Ednovation's second pilot pro-ject, also in February, had pre-schoolers engaged in a question-and-answer session with EdGPT.

At a recent demonstration at its ChildFirst @ King Albert Park pre-school, children aged five and six asked EdGPT questions such as "Why does the dragon fish have spikes?", "What is the fastest car in the world?" and even "What happens if the Earth disappears?" and "Who made Jesus?" (See sample questions and answers in box.)

The use of these generative At tools is being rolled out to all of Ednovation's Singapore pre-schools, followed by those overseas over the next few months, Dr Yen says.

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The company operates more than 70 pre-schools in Singapore, China and some South-east Asian China and some South-east Astati countries, I7 of which are local es-tablishments under the brands ChildFirst, Cambridge and Shaws Pre-schools. The two pilot projects involved about 90 local pre-

Ednovation is making its child-friendly chatbot EdGPT publicly available for free by the end of March, via the EdGPT.io website. It

can also be accessed via ednova-tion.com
Dr Yen explains why the firm is
making the Al assistant free for use:
"We think it's beneficial to parents
of young children, who sometimes
ask difficult questions. It's very important to inculcate qualities like
curiosity and creativity. If children's
curiosity and creativity. If children's
curiosity is not addressed most of
the time, over time, they will stop the time, over time, they will stop asking questions. Hopefully, we will preserve children's curiosity as they grow up.

Coding, besides English and Man-darin, is described at his company's ChildFirst pre-schools as the third language because Dr Yen believes that digital literacy, like languages, is best learnt young. However, he adds that his estab-

lishments also emphasise traits re-lating to "human intelligence" such as creativity, curiosity, risk-taking

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