

Source: The Straits Times, pB3 Date: 15 November 2024 2024

Ground rules for ethical Al use needed to be successful innovation hub



Here are three suggested criteria for the use of large language models.

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After a severe bout of Covid-19, a colleague, Sumeeta, found herself facing an unexpected challenge. Despite her intact verbal intelligence and reasoning skills, intelligence and reasoning skills with the mechanics of writing. Constructing grammatical sentences and coherent paragraphs now became an exhausting ordeal. A single paragraph required a full hour of recovery time. This experience threatened to derail her academic career. career.
Then she discovered the pow

Then she discovered the power of large language models (LLMs). For Sunneeta, LLMs like ChatGPT or Claude became a lifeline, enabling her to once again engage in writing tasks that had seemed impossible post-illness. From personal correspondence to academic essays, these Al tools helped bridge the enablety were proposed to the control of the proposed to the propose

essays, these Al tools helped bridge the gap between her ideas and their expression. Her story is a reminder of the potential of Al for good when used responsibly and creatively. And indeed, Singapore has made significant strides in encouraging responsible use of LLMs in universities. A recent study at the National University of Singanore

signimestible tere of LMS en genge in moversities. A cent study at the National University of Singapore (NUS) found that 7:69 per cent of students use Al tools like ChatGPT to summarise texts, while 7:18 per cent employ them to collect information and formulate ideas. In a nod to the peterutial of In a not of the peterutial of In a not of the original consistency in the collect information and formulate ideas. In a not of the peterutial of In a not of Interpretation of

How can we harness the good that LLMs can bring, as in the example of Sumeeta, while avoiding misuse? We need to make sure we include another key segment: not just students, but also researchers, academics and other professional knowledge workers across our economy.

'OUTCOME GOODS' AND 'PROCESS GOODS'

PROCESS GOODS'

The stakes are high. Singapore's position as a global hub for innovation and research can benefit immensely from Al use, not just in terms of quantity but also quality. Yet maintaining Singapore's lauded status depends on ensuring the highest standards of intellectual integrity. Sometimes a distinction is Sometimes and distinction is for the standards of intellectual integrity in the context of knowledge work and research, outcome goods are end results we're aiming for: generating reliable, innovative insights that advance our knowledge and understanding, equipping us to solve real-world problems.

equipping us to solve real-world problems.
Process goods are about the integrity of how we achieve those outcomes: here the focus is on means, not only ends. These goods include things like fairness, and adherence to ethical and legal standards.
LiMs have the potential to the control of the

testament to now trues coors. Lind in contributions that might valuable contributions that might otherwise be lost gential for otherwise be lost gential for widespread misses of LLMs in which will be compared to the contribution of the workplace suggests that we're at risk of compromising our process goods. When individuals copy and paste generated text without checking it, or pass off Al-generated work as their own, this has serious impacts on trust and fair competition, and may devalue the human creativity and critical thinking that are essential to successful innovation. In a recent research paper with colleagues from Harvard, Cambridge and Copenhagen, Cambridge and Copenhagen, Cambridge and Copenhagen, Cambridge and Copenhagen with the control of the contro

balancing both types of goods will be necessary to maximise the benefits and minimise the risks and harms – including harms to personal integrity, and to Singapore's reputation more broadly – in adopting these powerful technologies.

GUIDELINES FOR ETHICAL USE

In our article entitled "Guidelines for ethical use and acknowledgment of large language models in academic writing, we propose three criteria for the ethical use of LLMs in professional and academic settings; human vetting/guaranteeing, substantial human contribution, and

human contribution, and acknowledgment/transparency. Let's explore what these mean and why they matter singapore's knowledge workers. Since LLMs are known to make mistakes or invent information, human vetting and guaranteeing should be non-negotiable, especially in fields where accuracy and reliability are accuracy and reliability are

spectary in teles where a common and reliability are a common and reliability are a large a policy analyst at a government ministry using an LLM to help them analyse global economic data and generate initial policy recommendations. While the Al might efficiently compile and synthesise information, the analyst commands the expertise in Singapore's unique economic position, understanding of local business ecosystems, and ability to anticipate geopolitical implications. His role would be crucial for verifying the accuracy suggestions to the Singapore context, which will be necessary for crafting reliable and effective policies.

for crafting reliable and effective policies.

The second criterion, substantial human contribution, serves two crucial purposes: ensuring human expertise enhances AI-generated work and providing a basis for fair credit attribution.

Consider a data scientist at a

Singapore-based fintech startup using an LLM for market analysis. While the AI processes vast data, the scientist must critically the scientist must critically evaluate its suggestions, incorporating local market knowledge and factors like regulatory changes. Simply passing off an Al analysis as one's own is problematic: it's unfair to colleagues doing original work; misrepresents individual skills, potentially leading or undeserved on Al that could erode essential human analytical skills. The third criterion, acknowledgment and

acknowledgment and transparency, is crucial for maintaining public trust and

ensuring accountability, Consider an enforcement authority for an enforcement authority for processing Employment Pass applications. Transparency about this Al use is vital. If an application is rejected, the applicant needs to know Al was involved to understand how their data was processed and potentially appeal over the decision.

Education is another key example. Students should be required to be transparent about the nature and extent of its use. This allows teachers to accurately assess students' abilities and tailor their instruction and tailor their instruction and active their instruction and acknowledgement - will manifest differently across various sectors and projects. See they used to many their across all nowledge work. For academics, we've proposed acknowledgement starment for research publications:

"Any use of generative Al in this manuscript adheres to ethical

acknowledgement statement for research publications:
"Any use of generative Al in this manuscript adheres to ethical guidelines for use and acknowledgment of generative Al in academic research. Each author has made a substantial contribution to the work, which has been thoroughly vetted for accuracy, and assumer responsibility for the integrity of their contributions:
We argue that additional details on LLM use and impact should also be added where necessary to allow reproducibility of research and judgments of research and judgments of research receibility by independent experts.

experts.

As Singapore continues to invest heavily in AI, the goal should be to maximise long-term benefits through responsible use. This requires open, informed discussions across all sectors to develop appropriate guidelines that balance innovation with inventix. It shows extraction.

that balance innovation with integrity. It also requires investment in new skills. Employers, educational institutions and the government should consider providing learning opportunities focused on both the ethical considerations and practical applications of AI tools, Just as Singapore has invested in digital literacy in the past, the time has come to invest in AI literacy for all knowledge workers.

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