



VOLUME 2 | Q2 | ISSUE 3 | APRIL – JUNE 2024

REGISTRATION NO. : NAGPUR/0000492/2023

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AACST Newsletter



Educational Communication



**ARE YOU AWARE
OF THE WORLD
BACKUP DAY?**

Yes, 31st March is that day. It promotes an extremely important aspect of the need for data backup. Since the beginning of the Computer Era, data backup has been an essential need, wherever computerized systems are managing various tasks in the organization may it be a business or research lab, but it wasn't always considered so.

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World Backup Day has done an excellent job of promoting awareness about the risks associated with a failure to back up data. It has generated awareness as how important it is to backup of Data Regularly.

By keeping a relatively current copy of your files, organizations can avoid all the negative situations that backup helps ward against, including downtime, data loss due to uncertainties of disasters that may happen and full operational shutdown. World Backup Day is a great example of IT professionals promoting awareness of best practices to help businesses and individuals better understand how to utilize technology.

Ref: *Global Tech Solutions*

Dr Abha Khandelwal

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MY MIND

THE STORY OF AN INTERNET BROWSER

[HTTPS://WWW.BEANO.COM/POSTS/COMPUTER-JOKES](https://www.beano.com/posts/computer-jokes)

MY MIND IS LIKE AN Internet browser

- **19 tabs open**
- **3 of them are frozen**
- **Ads popping up everywhere**
- **I have no idea where the music is coming from**



The Dual Nature Image Generation Tools Dall-E 2: Ethical Concerns

Dr. Abha Khandelwal,
Former Head Dept. of Computer Sci,
Hislop College, Nagpur

OpenAI's latest creation, Dall-E 2, OpenAI's most recent innovation, has significantly impacted the world. This unique AI technology can generate incredibly realistic and creative visuals based on simple text descriptions. Dall-E 2 has significantly influenced the global community. While Dall-E 2 provides promising possibilities for artists, designers, and everyday users, its potential raises numerous ethical concerns. Let us explore the intriguing realm of AI image creation and discuss the ethical issues that arise.

Prejudice & unfair treatment:

AI image creators like Dall-E 2 are educated on the extensive collections of images gathered from the web. These datasets frequently mirror the prejudices & preconceptions that exist in society. If an AI is predominantly taught with pictures of CEOs, it will probably produce comparable outcome for that specific query. This could continue promoting discriminatory biases in the resulting images, potentially strengthening harmful stereotypes.

Intellectual property rights and ownership of works :

Intellectual property laws protect rights and ownership of creative works. Dall-E 2's ability to create images mimicking different artistic styles raises concerns about originality.

Who owns the text prompt: the user who submitted it or the original artists who inspired it? The laws concerning copyright need to catch up with technological progress, resulting in unresolved ownership issues for AI-generated images.

False information and manipulated videos:

Mastering the ability to create realistic visuals using text alone sets the stage for creating deepfakes, which are convincing, deceptive images or videos. Malicious individuals may use Dall-E 2 to create fake news or propaganda, resulting in a loss of trust in the media and potential social unrest. Creating safeguards to differentiate AI-generated images from authentic ones is crucial.

There are fears that technologies like Dall-E 2 might eventually displace human artists altogether. Although AI can undoubtedly help artists explore creatively, it is improbable that it will ever replace the human touch and emotional depth found in genuine artistic expression. Dall-E 2 could be a valuable resource for human artists by assisting in idea creation and early brainstorming sessions.

The Path Ahead:

The future for AI image creation is promising, but it is essential to confront ethical issues directly. Below are some methods to guarantee the responsible advancement and utilization of these potent instruments:

• **Precise Training Data** : Developers must reveal the source and makeup of the datasets utilized in training AI

image generators. This enables users to recognize possible biases and encourages responsible progress.

• **User Education** : Users should be educated on AI image-generation tools' restrictions and functionalities. Knowledge of these tools' functions can assist users in making informed choices about their utilization.

Creating precise rules and ethical guidelines for AI image creation can reduce the dangers of bias, misinformation, and copyright violation. Collaboration between humans and AI holds the most potential for the future. AI technologies such as Dall-E 2 can enhance human creativity rather than substitute for it.

AI technology for creating images has significant potential for fostering creativity and innovation. By recognizing the moral dilemmas and striving for ethical advancement, we can guarantee that Dall-E 2 and other similar tools will contribute positively, influencing a more innovative and optimistic future.

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AI TEACHERS

Can Machines Become Valuable Tools in the Classroom

Dr. Abha Khandelwal,
Founder, Association of All Computer Science Teachers

Iris is the Nation's FIRST AI Educator robot dressed in Saree. It was unmasked at a magnificent event at Kerala school. It has been built under Atal Tinkering Lab Project. This is an initiative of NITI Aayog. Developed by Makerlabs Edutech, uses an Android app interface. This included innovative stylish robotics and generative AI technology. Iris runs on an Intel Chipset. It has an integral, built-in virtual assistant, an AI assistant, that understands natural language voice commands and completes tasks for the user.

- AI is transforming education by providing students with personalized learning experiences and giving teachers valuable support.



- New educational technologies, such as AI-powered tutors and virtual learning assistants, are emerging to help students learn more effectively.
- In the classroom of the future, AI will play a major role in customizing education for each student.

How AI Teachers Work

- These AI systems are designed to adapt to individual student needs. They can:
- **Diagnose Learning Gaps:** AI tutors can assess a student's understanding of a concept through interactive exercises or quizzes. This helps AI Educators to recognize the areas where a student needs help.
- **Provide Personalized Instruction:** Based on the assessment, the AI can tailor learning materials and exercises to address the student's specific weaknesses. The individual attention to students may revolutionise teaching learning and may be more effective than This personalized approach can be more effective than a standardized teaching method.
- **Offer Immediate Feedback:** AI tutors can provide immediate feedback on a student's work, allowing them to learn from their mistakes and correct their understanding in real-time.
- **Support Practice and Reinforcement:** These systems can offer students additional practice problems or exercises to solidify their understanding of a particular concept.

Positives of AI Educator

- **Personalized Learning:** AI can cater to individual learning styles and paces, ensuring all students are appropriately challenged.
- **24/7 Availability:** AI tutors can be available to students outside of class hours, providing additional support and practice opportunities.
- **Frees Up Teacher Time:** By handling repetitive tasks like assessment and basic skill instruction, AI can free up valuable teacher time for more interactive and creative forms of teaching.

BIAS AND FAIRNESS

- **Teacher as Guide, Not Replacement:** AI should be seen as a complementary tool, not a replacement for human teachers. This is the irrefutable fact that human interaction can be replaced. The healthy interaction between teachers and students is a key component of education. This can never be replaced by AI.

- **Quality of AI Systems:** The effectiveness of AI tutors depends on the quality of the underlying algorithms and data used to train them.
- **Data Privacy and Bias:** It's important to ensure that AI systems are developed and used ethically, with proper data privacy safeguards and measures to avoid algorithmic bias.



Just Think...

```
while (alive)
{
    eat ();
    sleep ();
    code ();
}
```



**THEN WHAT THE
DO-WHILE LOOP
WILL DO NOW?**

National Level Tech Tango Poster Essay Competition Organized by AACST in Collaboration with Hislop College, Nagpur



The National Level Tech Tango Online Poster Essay Competition 2024, organized by AACST in collaboration with the Department of Computer Science at Hislop College, Nagpur, aimed to foster creativity, innovation, and critical thinking among participants from diverse backgrounds. This competition, held from January 26th to February 29th in celebration of the 75th Republic Day, attracted 428 participants including school and college students, working professionals, and enthusiasts. Participants explored topics such as Artificial Intelligence, combating misinformation, and the rise of online learning, showcasing their thoughts through visually compelling posters and essays.

1. Shatabdi C. Govardhan, S.P. College, Chandrapur, and Nabeel Khan, Hislop College, Nagpur jointly won first prize and received Prize money Rs.5000 each.
2. Rutika G. Yadav, Dharampeth Science College, Nagpur and Sneha D. Nagle, Smt. Narsamma College, Amravati jointly won Second Prize and received Prize money Rs.4000 each.

Six Consolation Medals and Certificate were given to deserving students. And 16 other got Excellence certificate for their outstanding contributions. Special mentions were also given to participants who demonstrated exceptional merit and creativity. Dr. Prashant Shelke, Principal (Hislop College) and Dr. Abha Khandelwal, Founder (AACST), were Present to grace the occasion of the Prize distribution program. Special thanks to Dr. S.B. Kishor, President, AACST for his support and guidance and Dr. M. Baheti, HOD (CS), for the support. Rupa Rajakumari R Peter (Convenor) Department of Computer Science at Hislop College, Nagpur, expressed gratitude for the collaborative efforts that led to the event's success.

