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Weekly Data Science Bytes

AI for all: HP's plan to bridge India's digital divide with next-gen tech and grassroots training

- From global GitHub activity to AI job hiring trends, the data points to India's pivotal role. The country accounts for 19% of all global AI projects on GitHub — the second-highest in the world. "One-fifth of the world's AI projects on GitHub are coming out of India… just imagine the role we are playing," Dasgupta says

- "In India and eastern parts of the world, we see a lot of excitement and positive sentiment towards AI," says Dasgupta, adding that the conversation in the West is comparatively more cautious. "We recognise that AI is going to be here to serve us as workers and consumers.

Source: https://www.fortuneindia.com/technology/ai-for-all-hps-plan-to-bridge-indias-digital-divide-with-next-gen-tech-and-grassroots-training/122432

Teaching AI morality like a child: DeepMind CEO Demis Hassabis talks of ethical use of AI

- In a conversation with Scott Pelley of CBS, the Nobel Prize awardee said that current AI systems do not exhibit any form of consciousness or self-awareness. What matters more is that systems understand concepts of "self" and "other"—an early step toward more advanced cognitive abilities, Pelley pointed out

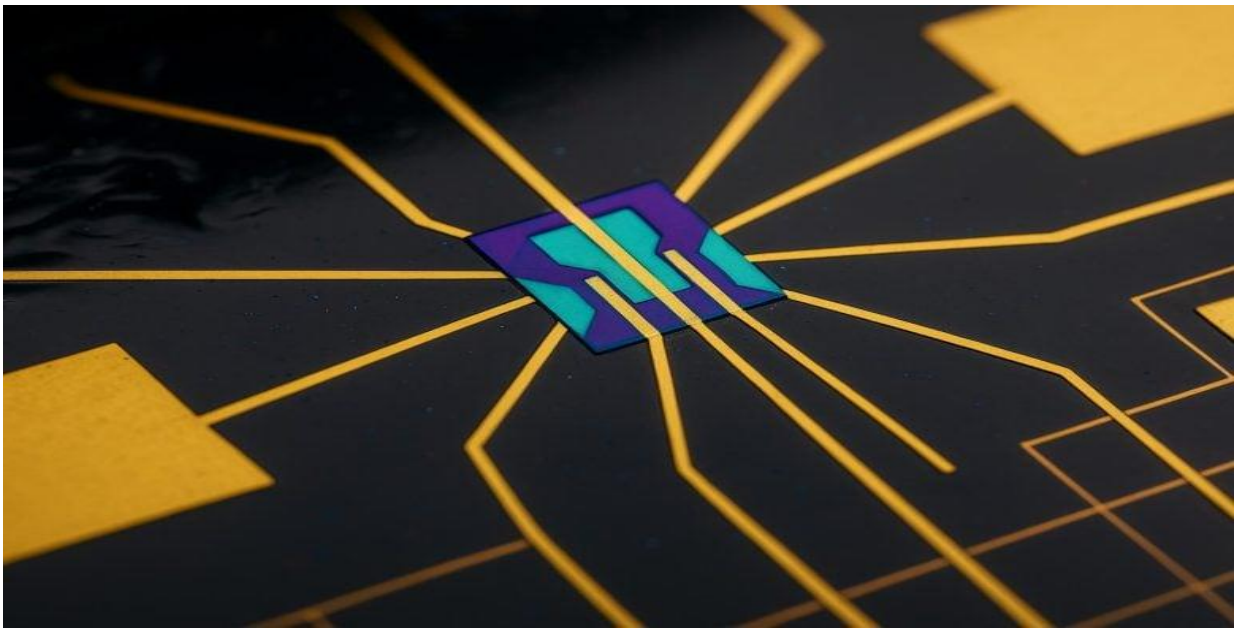
Source: https://economictimes.indiatimes.com/tech/artificial-intelligence/teaching-ai-morality-like-a-child-deepmind-ceo-demis-hassabis-talks-of-ethical-use-of-ai/articleshow/120591480.cms?from=mdr

OpenAI makes new image generator available for developers via API

OpenAI has added the improved image generator in ChatGPT to their API making it easy for developers to integrate the tool directly into their platforms. The new image generator went viral due to its ability to create realistic Ghibli-style photos.

Source: https://www.thehindu.com/sci-tech/technology/openai-makes-new-image-generator-available-for-developers-via-api/article69485815.ece

One Material, Four Behaviors: Superconductor, Metal, Semiconductor, and Insulator

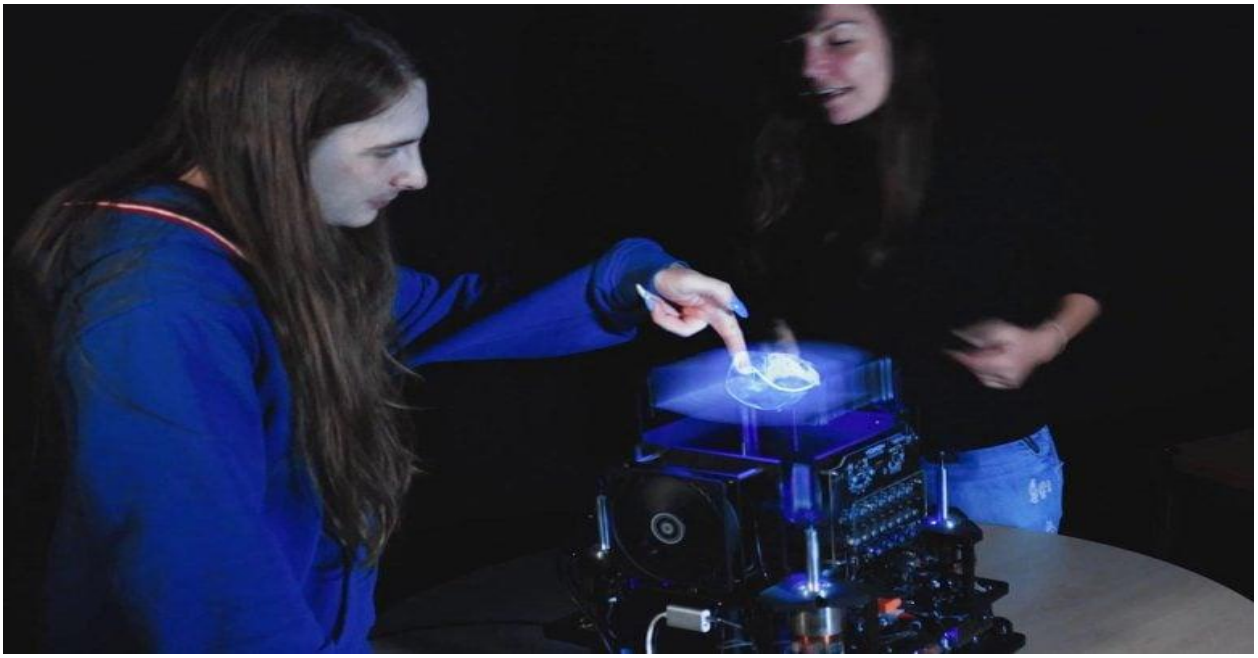


- A team of physicists at RIKEN has developed a transistor-based technique that allows a single-layered material to take on a wide range of electronic behaviors, functioning as a superconductor, metal, semiconductor, or insulator. This approach could lead to the discovery of new superconducting materials.

- "The variety of electronic properties based on a single material is highly intriguing to us from a materials science perspective," says Yoshihiro Iwasa of the RIKEN Center for Emergent Matter Science, who led the study

Source: https://scitechdaily.com/one-material-four-behaviors-superconductor-metal-semiconductor-and-insulator/

No Longer Science Fiction: Scientists Develop First-Ever Touchable 3D Holograms



- Dr. Elodie Bouzbib from the Public University of Navarra (UPNA), together with Iosune Sarasate, Unai Fernández, Manuel López-Amo, Iván Fernández, Iñigo Ezcurdia, and Asier Marzo, has achieved a breakthrough in three-dimensional display technology. The team successfully demonstrated mid-air 3D graphics that can be manipulated using hand gestures. Both Asier Marzo and Iñigo Ezcurdia are members of the Institute of Smart Cities.

- What we see in films and call holograms are typically volumetric displays,' explains Bouzbib, the lead author of the study. 'These are graphics that appear in mid-air and can be viewed from various angles without the need for wearing virtual reality glasses. They are called true-3D graphics.' She adds that 'they are particularly interesting as they allow for the "come-and-interact" paradigm, meaning that the users simply approach a device and start using it.'

Source: https://scitechdaily.com/no-longer-science-fiction-scientists-develop-first-ever-touchable-3d-holograms/