

Universal College Of Engineering

*APPROVED BY AICTE, DTE, UNIVERSITY
OF MUMBAI, MAHARASTRA STATE.*

VOLUME: 5 ISSUE: 10
APRIL 2023

THE MISSION

The department is carrying a mission to create and disseminate the knowledge and techniques in the intellectual areas of Engineering and other core areas of Applied Science and Humanities for the betterment of Ecosystem.

To inculcate the importance of Applied Science and develop a natural flair for Engineering and Technology which in turn shall mold students into a competent professional.

THE VISSION

The Department of Applied Science and Humanities committed to dynamically integrate the components Science, Humanities Engineering to groom students to transform them as globally acknowledged professionals.

To keep pace with fast developing scenario of technology and socio economic environment while planning to develop a world class technical institution.

#ASHTAG

Applied Science and Humanities Department



The capacity to learn is a gift,
The ability to learn as a skill;
the willingness to learn is a
choice.

By Brian Herbert

Top 5 Ways Workers Can Use GPT-4 to Improve Productivity

OpenAI recently released its new technology and here are the top 5 ways workers can use GPT-4

Because of how quickly artificial intelligence is developing, it might be challenging to stay up. The language model that powers ChatGPT, GPT-4, has released a new version with considerable improvements over GPT-3 and 3.5. It is touted that workers can use GPT-4 to improve productivity and quality of work.

The company's newest language model, GPT-4, can accept inputs of both text and images, as opposed to GPT-3 and 3.5, which only supported text. Learn more about how workers can use GPT-4 in this article. GPT-3.5 is used by OpenAI's ChatGPT, the program that made AI so understandable and available to the general population. People and corporations must purchase the US\$20/month ChatGPT Plus version to utilize the capabilities that GPT-4 can provide. Here are the top 5 ways workers can use GPT-4 to improve productivity.



"When it comes to the possibilities and possible perils of artificial intelligence (AI), learning and reasoning by machines without the intervention of humans, there are lots of opinions out there. Only time will tell which one of these quotes will be the closest to our future reality. Until we get there, it's interesting to contemplate who might be the one who predicts our reality the best."

1. Ask GPT-4 to Read a 50-Page Contract

Although not every one of us handles enormous contracts, the fact remains that GPT-4 may eat up to 50 pages of text in ChatGPT Plus. It is double what the earlier versions were capable of. You may use GPT-4 to complete the task for you rather than taking the time to read a lengthy document, whether it is a contract or a white paper that may be 20 or 45 pages long. It demonstrates how crucial it is for employees to comprehend both the entire potential of GPT-4 and the most effective ways to activate it to produce the desired results for the task. For instance, you could easily ask it to compose an email expressing your concerns to the individual who shared it once it provides you with the output of the contract's top areas of concern.

2. Upload Images for Social Posts

The fact that GPT-4 can accept both text and picture outputs is one of its strongest features. But it's only accessible through the API. As a result, you won't be able to use ChatGPT Plus to access this. It won't be available outside of other items. During the OpenAI presentation, the creator photographed a napkin drawing of an application and had GPT-4 convert it into website code. It's quite astounding.

3. Consider Treating GPT-4 as Another Employee

With GPT-4, so much more subtlety is available. The previous models would provide results that, although appearing to be a true solution, were not. For instance, there was a fad when individuals would inquire on ChatGPT, "Who is [insert your name]?" and would frequently invent various occupations that person had done, claim they had awards that they didn't, and were mistaken about where they had studied. It's only one example, but ChatGPT would routinely fabricate information while making it seem real.

4. Train GPT-4 to Learn Your Tone of Voice

Almost all experts stressed how crucial it is to teach GPT-4 to recognize your tone of voice, and some even advised writers to do this to ensure that their articles are written in their distinctive manner. Although some (or many) journalists would find that to be a bit of a reach, teaching GPT-4 to recognize your writing style may be useful in other situations.

It returns to be able to input more data than its forerunner. If you supply several emails or social media posts that you've already written, it will be able to better grasp your writing style and produce better results when you request text in the future. It used to be essential to severely alter ChatGPT responses for them to appear to be coming from you or to reflect the tone of your business. Today, training is simpler.

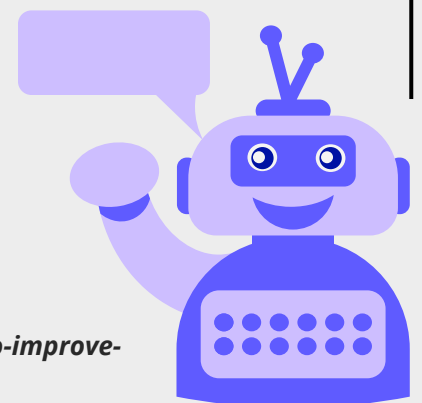
5. Ask GPT-4 for Personalized Interview Questions

AI has indeed altered the recruitment landscape. Companies must get better at recognizing when an applicant added artificial intelligence (AI) to their cover letter or CV. Yet, GPT may also benefit recruiters because it makes it easier for them to produce automated messaging. With GPT-3 and 3.5, that may have meant requesting a brief message to post on LinkedIn and email to prospective applicants for jobs such as, say, a data analyst position in New York City. Nonetheless, it would often be devoid of any true personalization.

You may now create a highly customized message requesting an interview by entering data from a possible candidate's LinkedIn profile, website, and other social media. Now that one applicant has worked in the sector for ten years, reached senior positions, and has also indicated an interest in stepping into a more consultative role, GPT-4 can produce something. The recruiter may be able to fill more vacancies more quickly and with more success thanks to this personalization.



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COMPLIED BY: Sanket Shirke

SOURCE: <https://www.analyticsinsight.net/top-5-ways-workers-can-use-gpt-4-to-improve-productivity/>

'Might take toll on low-skilled staff': How AI can cost BPO, IT employees their jobs

The Indian IT, ITeS, BPO, and BPM sectors collectively employ over 50,00,000 people in India and their jobs seem to be at stake with the rapid advancements in AI and ML.

The latest developments in artificial intelligence (AI) and machine learning are expected to have a significant impact on a wide range of professions and industries, especially on the jobs in the Indian IT, ITeS, BPO, and BPM industries. These sectors collectively employ over 50,00,000 people and are the biggest source of white-collar jobs in India.

Sridhar Vembu, the CEO and co-founder of Zoho, noted that AI advancements will have a negative impact on the IT and tech services sector. In a statement written to the central government, Vembu along with Rajiv Kumar, former Niti Aayog vice chairman, and Sharad Sharma, co-founder of iSPIRT Foundation, highlighted how AI advancements may be chaotic and catastrophic for a country like India, whose majority population is quite young.

"For a remarkably young country like India, with a median age of 29, it is clear that AI could put millions of jobs at risk almost overnight,".

"It is important for companies to keep track of AI trends and integrate it in the workforce as and when required,"

Building on that, experts and industry insiders believe that the "low-skill" service workers are going to be most impacted by the advancements in AI. This includes call center workers, workers involved in data entry tasks computer operators, entry-level software engineers in IT and ITeS companies, entry-level software developers, entry-level BPO workers, etc.

Sekhar Garisa, CEO of foundit, previously Monster.com, told Business Today that in the immediate to short term, 7 per cent low-skilled service sector workforce will be replaced by AI.

"It is anticipated that the immersion of AI might take a toll on low-skilled professionals within the service sector in the future. Some redundant roles will see a declining phase marking close to a 7 per cent decrease in the workforce in the immediate to short term,".

"Many of the services that the Indian BPO industry provides are in the realm of customer support (voice and chat), data entry, and back-office services. AI technologies such as Natural Language Processing, ML, and RPA can potentially disrupt and automate these tasks,"

"AI integration in the workplace would depend on multiple factors including the economics of it. Timelines are difficult to predict, but it would mainly depend on AI affordability, and the service provider's and customers' willingness to invest in the innovation,".

COMPILED BY : Sanket Shirke

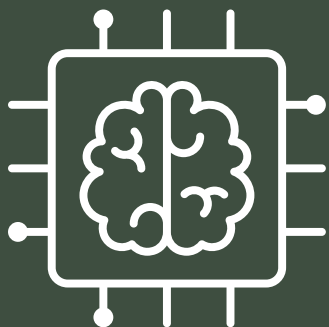
SOURCE: <https://www.businesstoday.in/latest/corporate/story/might-take-toll-on-low-skilled-staff-how-ai-can-cost-bpo-it-employees-their-jobs-376172-2023-04-05>

Race to AI supremacy: Google says its AI computer is much faster, greener than NVIDIA's A100 Chip

One of the hidden aspects of the global AI race is who works with what processors, or chips. The AI developer with the fastest and most optimised processor, will have a massive advantage over anyone and everyone else who's using an outdated processor. Now, Google claims that its latest generation of Tensor chips, or Tensor Processing Units is the fastest, most energy-efficient and most optimised chips.

Currently, all major software studios are using NVIDIA's A100 processors. The A100 chips are the most commonly used chips that development studios use for AI and Machine Learning workloads. Google claims that its latest Tensor chips outperform NVIDIA's offering in every conceivable parameter.

As good as NVIDIA's A100 processors are, they are not the best that they have to offer – that will be the H100.



Google's Tensor Processors make a massive jump

Google recently revealed new information about the supercomputers it uses to teach its artificial intelligence models, claiming the systems are both faster and more power-efficient than similar Nvidia Corp systems.

Google created its own special processor, known as the Tensor Processing Unit, or TPU. It employs those processors for more than 90 per cent of the company's artificial intelligence training, which is the process of putting data into models to make them usable.

The Google TPU has reached its fourth iteration. Google released an article on Tuesday outlining how it connected over 4,000 of the chips into a supercomputer using its own custom-developed optical switches to help link individual machines.

Because large language models that fuel technologies like Google's Bard or OpenAI's ChatGPT have exploded in size, they are far too large to hold on a single chip. Hence, improving these connections has become a crucial point of rivalry among companies that create AI supercomputers.

The computational power needed to train AI models

Instead, the models must be distributed across thousands of processors, which must then collaborate for weeks or months to train the model. Google's PaLM model, the company's biggest publicly revealed language model to date, was trained over 50 days by splitting it across two of the 4,000-chip supercomputers.

Google claims that its supercomputers make it simple to reconfigure links between processors on the run, thereby avoiding problems and optimising performance.

In a blog article about the system, Google Fellow Norm Jouppi and Google Distinguished Engineer David Patterson wrote, "Circuit switching makes it easy to route around failed components." "We can even change the topology of the supercomputer interconnect to accelerate the performance of an ML (machine learning) model because of this flexibility."

COMPLIED BY: Sachin Ghosh

SOURCE:

<https://www.firstpost.com/world/google-says-its-ai-computer-is-much-faster-greener-than-nvidias-a100-chip-12410822.html>

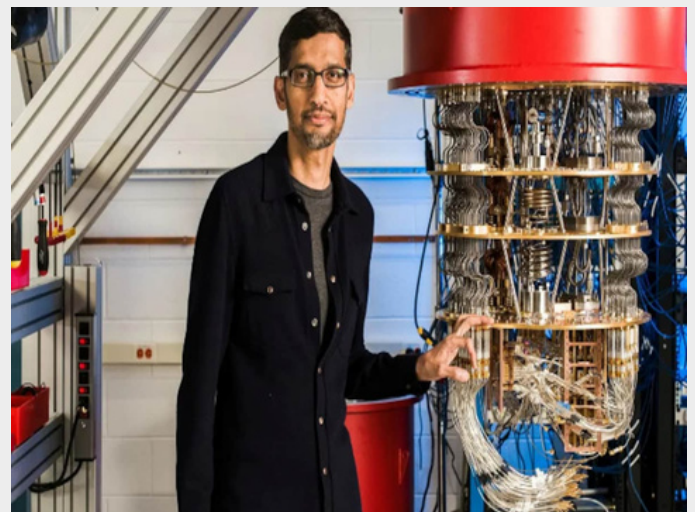
A healthy line of processors in the pipeline

While Google is only now disclosing information about its supercomputer, it has been operational since 2020 in a data centre in Mayes County, Oklahoma. Google stated that the system was used by the startup Midjourney to train its model, which creates new images after being given a few lines of text.

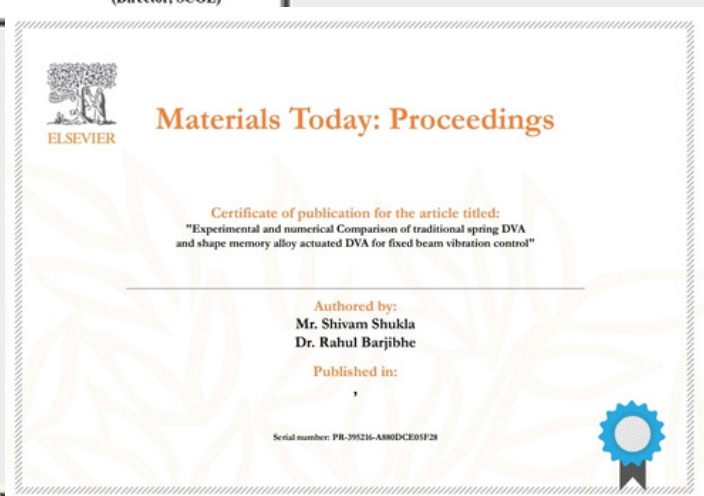
According to the study, Google's chips are up to 1.7 times quicker and 1.9 times more power-efficient than a system built on Nvidia's A100 chip, which was on the market at the same time as the fourth-generation TPU.

Google stated that it did not compare its fourth-generation processor to Nvidia's current top H100 chip because the H100 was introduced after Google's chip and uses newer technology.

Google hinted that it was working on a new TPU to contend with the Nvidia H100, but gave no further information. All they said was that they have a healthy line of chips in the pipeline.



Faculty Achievements



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