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AI developments of 2023

Throughout the years, mankind has looked for ways to improve their quality of life. Since the primitive man developed fire was the first step for human development, discovering that they could forge metals into useful tools or weapons to increase their survival. Getting closer to the modern area, some of the technological improvements were not for survival, but for advantage in Warfare. The first computer was built out of the need for decoding encrypted messages during the war and that was the gateway for the computers we know. Nowadays the most talked about theme is Artificial Intelligence or AI for short. We have seen how different AI have taken the scene by storm, machines like Chat GPT, Dall-E and others, but the real question is what have been some of the new improvements in AI and how do they benefit us?

Last year, we encountered massive improvements on what is AI. From chat bots to cancer detection, the development of AI is driving forward humanity to a better future, here are some of the developments that mostly captured my attention. This this year, MIT and Mass General Hospital worked together to achieve a breakthrough by utilizing AI on premature lung cancer detection [1]. By utilizing patients CT scans and a deep-learning model, they were able to evaluate a patient's risk of lung cancer even potentially discovering cancer before it even surged [1]. On another note, Google's MusicLM is a transformer-based-text-to-audio model capable of producing music with different genres, instruments and concepts; furthermore, Baidu reaserches unveiled ERNIE-Music, like MusicLM, is a text-to music-generation model in the waveform domain that uses diffusion models to generate music with higher fidelity and complexity [1]. Even education had some assistance, Khan Academy launched Khanmigo AI, a platform that works with different bots to provide counselor, curricular designers, and teacher assistants utilities [1].

These improvements in AI show that is a helpful tool for humanity. AI is reaching a point where we can see usefulness in education, medicine, and in the production industry. It can only improve from here; I have firm confidence that AI will have some drastically improvements this year also as we can see NVIDIA is also got into the grounds of AI development designing GPUs to specifically be used for AI purposes [2]. With news like these, I can only get exited for what is yet to come for this new year and the future of AI.

References:

[1] "Deep learning and AI solutions from Nvidia," NVIDIA, https://www.nvidia.com/en-sg/deep-learning-ai/products/solutions/ (accessed Feb. 3, 2024).

[2] Matt, "Ai in 2023 review: A timeline of artificial intelligence advancements," AutoGPT Official, https://autogpt.net/ai-in-2023-review-a-timeline-of-artificial-intelligence-advancements/ (accessed Feb. 3, 2024).