

PROSPECTS OF ARTIFICIAL INTELLIGENCE

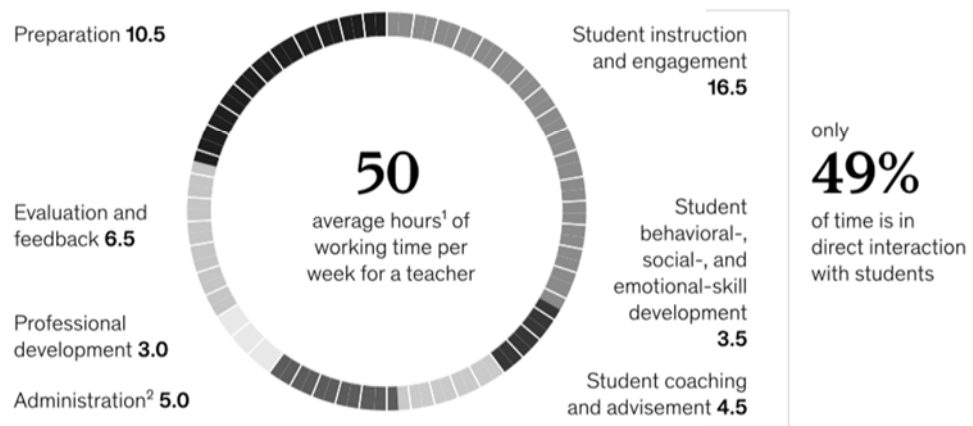
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AI in teaching process: As lots of people know, AI is very good at school subjects, showing great results on final tests and these results become better and better from one model to another. Having these knowledges, it's obvious to try this technology in the teaching and studying process. The main tasks, the teacher can do with existing AI-s are about administration, science, the teachers from Canada, Singapore, UK and the US often cite unmanageable administrative tasks as their greatest source of exhaustion and burnout. By automating boring, but repeatable tasks, teacher can have more spare time to build connections with students, give more precise feedback etc. It's also important to remember, that teachers can use AI to search for information related to the subject, doing it during lessons or during preparation and, in the second case, more time to communicate with students will free. Trevor J. (2023, October 22). Missed Out on Nvidia? 1 Artificial Intelligence (AI) Stock Could Be the "Fastest-Growing Software Company," According to This Wall Street Analyst. *MSN*.

Teachers work about 50 hours a week, spending less than half of the time in direct interaction with students.

Activity composition of teacher working hours, number of hours



AI in studying process: AI can be a valuable tool for students who are learning by themselves. It can help with understanding information (by giving examples and creating parallels), research by providing personalized learning experiences, replaying previously learned information, analyzing large amounts of data to do more precise research, and automating repetitive tasks, such as: creating studying flashcards, creating or searching for questions to check student's knowledges, visualization. Chincholi, A. (2022, September 20). How AI Is Changing the Way Students Learn. *Forbes*.

AI will transform the scientific method: With the power of artificial intelligence and machine learning, we can anticipate remarkable advancements in what can be achieved. AI provides an unparalleled capacity to scrutinize vast datasets and uncover intricate connections and patterns through computation. As it enhances human intelligence, AI is poised to revolutionize the process of scientific research, ushering in an exciting era of scientific breakthroughs in the near future. Tewari, G. (2022, May 5). The Future Of AI: 5 Things to Expect in The Next 10 Years. *Forbes*.

AI-driven automation will change the work market: The work market will change as a result of AI-driven automation, necessitating new positions and skills. Industries like transportation, agriculture, and retail will witness the integration of AI-driven automation, leading to increased efficiency and productivity. Moreover, more people will be free from repeatable work, which will lead to more creative and

efficient time spending on their jobs. Mallu, M. (2023, May 16). Future prospects for AI in 2023. LinkedIn.

AI is a potential phenomenon, that is able to drastically change the healthcare industry by enabling faster and more accurate diagnosis, personalized treatment, and efficient drug discovery. AI can play a significant role in shaping the future of healthcare by providing better data-driven decision-making to improve the healthcare system, better patient outcomes, and cost and energy savings. AI can also assist in tackling some of the crucial issues in healthcare, such as the shortage of healthcare staff and the imbalance of medical resources. AI can be used in clinical and non-clinical interventions, starting from clinical research, patient engagement to drug development and delivery. AI can also be used in medical imaging, surgical decision-making, and deep learning in radiology. However, there are specific challenges of ethics and privacy that need to be addressed. The demand for huge datasets incentivizes developers to acquire data from a large number of patients, which may infringe on their confidentiality. Rastogi, M. (2023, June 1). THE GROWTH AND POTENTIAL OF AI APPLICATIONS IN MEDICINE AND HEALTHCARE. Indian Journal of Applied Research.

In summation, the integration of AI into education, research, industries, and healthcare is ushering in an era of unprecedented possibilities. As it continues to evolve, it promises to enrich the human experience, enhance productivity, and contribute significantly to advancements across various sectors, all while raising important ethical questions that require careful consideration.

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