

AI & RESEARCH

Revolution of Research

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AI Research

1

Improving the Research with AI-based Algorithms

2

Facilitate the Synthesis and Analysis of Complex Datasets

3

Automate the Acquisition of Data

expertise!

EXAMPLES



Human-Centered AI Research at Stanford

("Stanford HAI," 2022, Sept 19)

Hinman, Joseph (2021) [Vertical_all-white, Stanford HAI logo.] [Logo]. Stanford University. https://hai.stanford.edu/sites/default/files/2021-10/hai_1.png



Fusion Energy

("Google Deep Mind," 2022, Feb 16)

Herzog, A. (2021) [Interior of the TCV tokamak.] [Photograph]. © A. Herzog, EPFL
Image Source-Credit: DeepMind and SPC/EPFL
https://www.epfl.ch/research/domains/swiss-plasma-center/wp-content/uploads/2021/04/TCV_InterieurBaffles_Herzog_red.jpg
Reference- <https://www.deepmind.com/blog/accelerating-fusion-science-through-learned-plasma-control>



Deep Learning Indaba

("Deep Learning Indaba," 2023 Jan)

Deep Learning Indaba (2017 - 2023) [Footer logo, Deep Learning Indaba logo.] [Logo]. Copyright © Deep Learning Indaba 2017 - 2023. <https://deeplearningindaba.com/wp-content/themes/indaba-template/images/footer-logo.png>

Usage?
Where?

Agriculture and Climate

Social Sciences and Humanitarian Research

Genomics and Bioinformatics

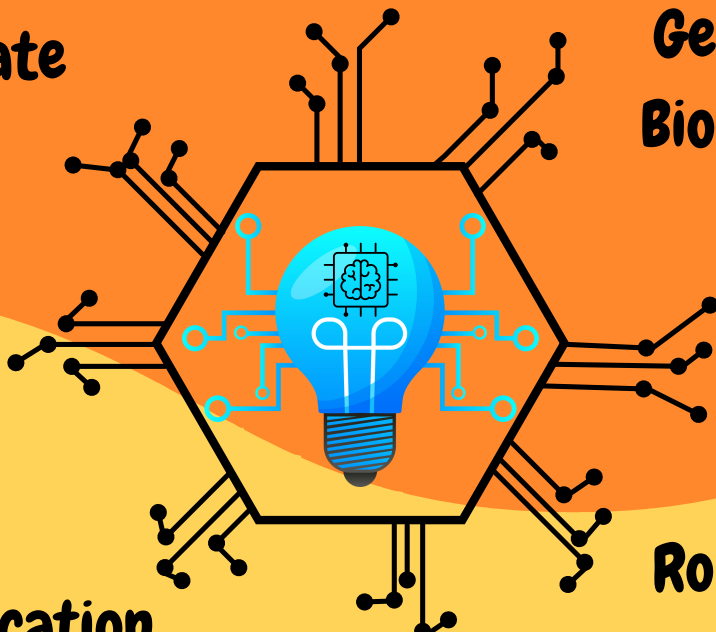
Natural Language Processing (NLP)

Education

Healthcare and Medicine

Finance and Economics

Robotics and Astrophysics



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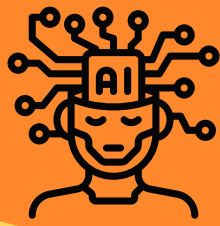
("Artificial Intelligence (AI): Multidisciplinary Perspectives on Emerging Challenges, Opportunities, and Agenda for Research, Practice and Policy," 2019)

Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. (2019, April). International Journal of Information Management, 57. <https://doi.org/10.1016/j.ijinfomgt.2019.08.002>

The Pros and Cons of AI Usage in Research



PROS



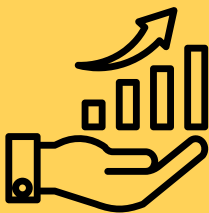
CONS



Saving Time



Data Collection & Analysis



Faster Progress



Help for Brainstorming



Help for Citation



Improve the Quality



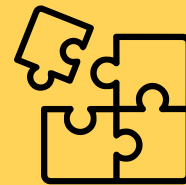
Unemployment



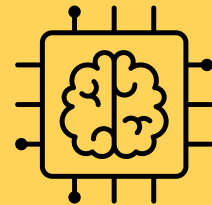
Damaging competition



Makes people lazier



Less creativity



Replacing human



Inequality - Unethical

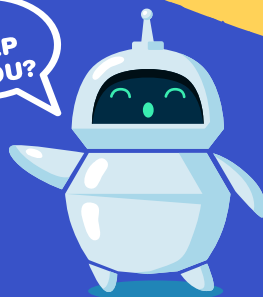
(Top Advantages and Disadvantages of Artificial Intelligence [2023 Edition], 2021)

Top Advantages and Disadvantages of Artificial Intelligence [2023 Edition]. (2021, February 25). Simplilearn.com. <https://www.simplilearn.com/advantages-and-disadvantages-of-artificial-intelligence-article>



Consensus

CAN I HELP YOU?



AI TOOLS



ChatGPT

ChatPDF

Elicit & Paper QA

Research Rabbit

SciSpace

Scite Assistant

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<https://www.canva.com/>

R, Dr. Somasundaram. (2023, June 4). Top 7 Artificial Intelligence (AI) Tools in Scientific Research. Ilovephd. <https://www.ilovephd.com/top-7-artificial-intelligence-ai-tools-in-scientific-research/>

