Annotated Bibliography

Thesis: The benefits of AI outweigh the mitigatable downsides.

J. Straub, "Increasing Trust in Artificial Intelligence with a Defensible AI Technique," *2022 IEEE Applied Imagery Pattern Recognition Workshop (AIPR)*, DC, USA, 2022, pp. 1-7, doi: 10.1109/AIPR57179.2022.10092226.

AI will make employees so much more efficient than they previously were that the costs of goods and services will dramatically decrease. The same way that when computers began being used by employees of businesses, AI would allow for everything to happen much faster. Sending an email that might take 10 minutes to write can be done in 10 seconds, Reviewing a contract that normally takes hours will be done in seconds. Engineers and doctors can have problems solved that might take them days to figure out in an instant. Everything will be much faster and as the saying goes "time is money."

I believe this source is credible because I had to use my school account to access the article. It was initially posted on the National Bureau of Economic Research which is a venerable nonprofit. The author is the Director of the NDSU Institute for Cyber Security Education and Research and an Assistant Professor in the Department of Computer Science at the North Dakota State University.

Jack Karsten, Darrell M. West, et al. "How Artificial Intelligence Is Transforming the World." *Brookings*, 27 June 2023, www.brookings.edu/articles/how-artificial-intelligence-is-transforming-the-world/.

This article describes solutions to the potential problems that can arise from the integration of AI into quotidian life. Some of these solutions are to invest more funding into government research on AI, create a federal AI advisory committee, create rules and regulations for the industry, and have penalties in place for hackers or people using AI for nefarious purposes. The author believes that the federal AI advisory committee should give policy recommendations and interact with state and local officials to ensure the maximum possible level of safety. There also should be regulations more focussed on the uses and intentions of AI instead of the algorithm itself.

This is a credible paper because Brookings is a nonprofit public policy organization. One of the authors, Darrell West, is a senior fellow at the Center for Technology Innovation. The other author, John Allen is a member of the Board of Advisors of Amida Technology and on the Board of Directors of Spark Cognition.

K. Thiagarajan, C. K. Dixit, M. Panneerselvam, C. A. Madhuvappan, S. Gadde and J. N. Shrote, "Analysis on the Growth of Artificial Intelligence for Application Security in Internet of Things," *2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)*, Coimbatore, India, 2022, pp. 6-12, doi: 10.1109/ICAIS53314.2022.974298

AI would make the internet much more secure. AI can detect malware and hackers much quicker than humans can. These programs would assist those who work in cybersecurity in bringing justice as soon as possible to people abusing the internet while simultaneously preventing the intended harm of those people from actualizing. There can be AI bots that are built into websites to monitor potential hackers. Social media accounts can be protected from data leaks. National security will increase as we will be much better protected from digital threats. The digital safety of everyday Americans will be much greater.

This source is credible because it was presented at the Second International Conference of Artificial Intelligence and Smart Energy. This conference focuses on sharing the uses of AI and how to make it more energy efficient. They also discuss how to make it more robust and resilient to potential flaws in the system.

S. Yeasmin, "Benefits of Artificial Intelligence in Medicine," *2019 2nd International Conference on Computer Applications & Information Security (ICCAIS)*, Riyadh, Saudi Arabia, 2019, pp. 1-6, doi: 10.1109/CAIS.2019.8769557.

AI will enhance the medical industry in every aspect. AI has been shown to be able to examine any kind of medical photograph and discern the diagnosis significantly faster than humans. Doctor visits will be much quicker and labs and tests will cost much less. Procedures themselves will have less danger due to the assistance of AI which will cause the price of them to decrease and be a major benefit to humanity. Drugs will be developed a lot quicker as AI can reduce the amount of time spent fixing errors. Holistically, AI will reduce the cost of medical related expenses while boosting the life expectancy of people.

This is a credible source because it was originally posted on the International Conference Control, Automation, and Information Sciences. They give conferences around the world on this topic so papers posted there are likely to be a credible source. There are many studies displaying statistics that bolster the author's claim.

W. Noonpakdee, "The Adoption of Artificial Intelligence for Financial Investment Service," *2020 22nd International Conference on Advanced Communication Technology (ICACT)*,

This article describes the uses of AI in the financial investment industry. AI would be able to provide investors with market analysis much quicker than they could do on their own. AI could be used to predict potential imminent economic problems so that we could try to prevent them from happening. AI can be used to secure online transactions and provide full details on how digital assets were transferred. News stories around the world can be computed by AI in seconds to give economic predictions that would've taken a team of people hours to do. AI would be massively beneficial to financial systems.

This paper is credible because it was presented at the 22nd International Conference on Advanced Communication Technology. This conference allows for engineers and people in the technology industry to discuss nascent technologies and innovations. Papers that are submitted here are only accepted if they come from a respectable person in their industry.