



There's a lot of talk about the potential risks of artificial intelligence, but the right facts show its extraordinary good.

From the first wheel to the emerging Internet, most disruptive technologies are vilified at first—but in the long run, AI's impact could be **overwhelmingly positive**.

AI FOR Good

Creates Jobs

By one estimate in 2020, AI will create **2.3 million jobs**.

Jobs AI will create

- Programmers to build AI systems, including natural language processing, machine learning, etc.
- Technology govt. jobs: AI systems, teachers and the public
- Ethics controllers to ensure AI systems are accountable with human values

The growth of data and analytics positions: 2016-2020, demand for data scientists and data engineers is expected to grow 30%.

Increases Human Potential

Frees Up Human Creativity

Skills needed in a future of AI and automation, by change in hours spent (2016-2020) U.S.

Technological	+80%
Social and emotional	+26%
Higher cognitive creativity, or the ability to think differently	+9%

37% of people are worried about automation putting jobs at risk.

But 75% say technology can never replace the human mind.

AI FOR EVIL

Eliminates Jobs

Of all jobs, 38% have the potential for automation.

Manufacturing	52%
Wholesale and retail trade	31%
Construction	24%
Human health and social work	23%
Education	12%

Leaves Less Educated Workers Behind

One-third of jobs at risk are counted from a 2016 survey of 1,000 U.S. workers.

86% of employees expect that workers will need to change their skill sets in the future.

By the mid-2020s, workers with low or medium levels of education will be more likely to have their jobs automated as higher-skilled workers.

Low education	47%
Medium education	46%
High education	21%

Creates More Targeted Attacks & Propaganda

Privacy Inflation and Hoarding

AI-powered systems can automatically collect and analyze huge amounts of data from mobile devices and sensors.

Autonomous War

Improved military robots can learn with little training or supervision.

Authoritarian Rulers / Political Instability

Advanced computer systems can help authoritarian regimes monitor and control their citizens without their knowledge.

AUTHORITARIAN AI: CHINESE POLICE USE AI-POWERED CAMERAS AND FACIAL RECOGNITION TO SCAN CITIZEN'S FACES, GATHERING DATA AND CATCHING CRIMINALS—FROM WANTED DRUG SMUGGLERS TO ANTI-PROTESTERS.

Fuels Social Divides

AI may seem like the perfect tool to allocate human labor, but when algorithms fuel social divides, it only agitates our fears.

Public data platforms use AI algorithms to predict the likelihood of a defendant committing future crimes, penalizing those against immigrants and people of color.

Crime-prediction software shows police where they are likely to be contacted, leading to income inequality and racism out.

HOPE FOR UNBIASED AI?

AI research is done in benefits labs to control, monitor, and manage through security in Silicon Valley, Beijing, or anywhere else. It has the potential to make everyone the center of the world.

In 2017, Google established PAIR (People + AI Research), a project dedicated to building AI that treats everyone equally — Starting with tools to evaluate and improve the datasets used to train AI.

Advances World-Changing Inventions

Pharmaceuticals

Machine learning technology is being deployed to match drugs to individual patients and customize treatments.

Road Safety

Autonomous cars or external AI technology on sensors could reduce car accident fatalities.

Education

AI data has brought AI technology closer to a better understanding of how individual students learn and process information.

Reduces Waste in the World

Global Economic Impact

AI augmentation will generate **\$2.9 TRILLION USD** for businesses and **6.2 BILLION HOURS** of worker productivity.

Global Environmental Impact

AI-gathered data can eliminate waste

Fuel Lower fuel costs for trucking fleets	Downtime Reduce equipment repair and maintenance costs	Energy Cut down on industrial wastewater and energy in beer mills	Food and water Optimize crop yields and reduce food waste
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Studies indicate transportation companies can reduce CO2 emissions up to 25% by using AI technologies such as sensor-based tracking and predictive maintenance.

Improves Accessibility

Blindness	Deafness	Limited mobility
Microsoft Seeing AI app allows blind people to see photos, text, and more with their phone.	DeepMind's AlphaFold AI system predicts protein structures, accelerating drug discovery.	mobility app helps people with limited mobility find accessible routes and services.

66% of people with limited mobility use AI.

2.4% of people with limited mobility use AI.

Stops Misinformation

AI can help identify and remove fake news and misinformation.

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Human Ingenuity + Artificial Intelligence = A Better World

How will AI transform your business?

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