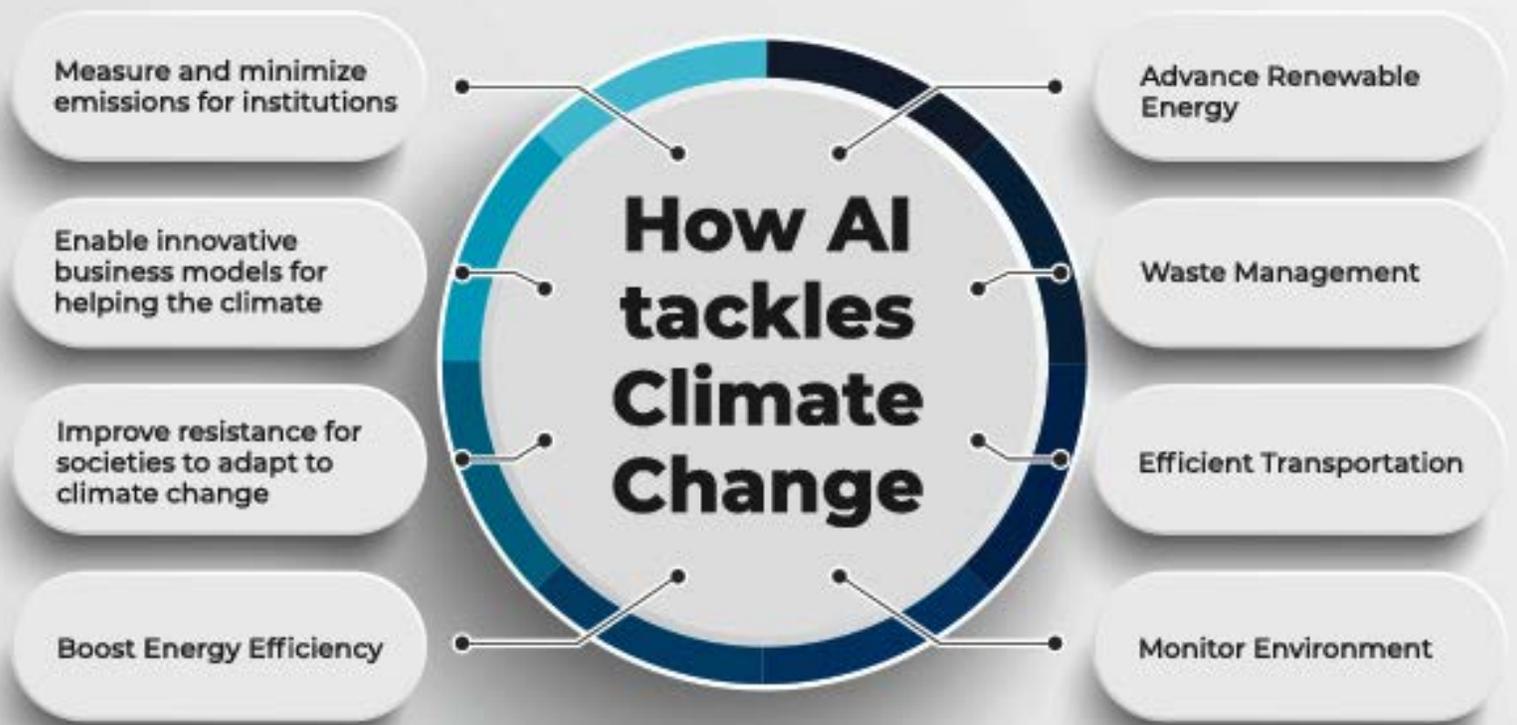




USING ARTIFICIAL INTELLIGENCE TO CORRECT CLIMATE CHANGE

Tuğçe ARSLAN



An increasing number of our devices and services rely on Artificial Intelligence (AI), a technology that continues to branch out and emerge in more and more areas of our lives. Scientists, entrepreneurs, and governments are leveraging Artificial Intelligence (AI) to discover solutions to some of society's biggest challenges. For example, it is high on the agenda to figure out how the Earth's climate behaves and how it might evolve in the future. But while technology helps us make more sense of the vast amount of data out there, how can its intelligence practically help us mitigate environmental changes and adapt to the future? An assistant professor at the University of Pennsylvania, "When people use the term artificial intelligence, they often mean machine learning (ML), a set of algorithms that can learn from data," says Dr. David Rolnick. Artificial Intelligence (AI) will usually do nothing better than a human, but it will often be much faster and be able to pick patterns from vast amounts of data. made statements. In addition, to make a statement, While Artificial Intelligence (AI) is a game-changing phenomenon across industries, it is also the ability to process large volumes of data very quickly, improve information and find connections.

This applies no less to climate science and climate change monitoring. Today, satellites are collecting climate-related data at unprecedented levels. Weather forecasting is done at extreme levels of detail, and climate models and scenarios still carry many uncertainties.

Scientists are using Artificial Intelligence (AI) to manage this data-driven dense terrain to produce more accurate predictions that improve climate science. "Machine Learning allows you to learn complex behaviors from data that does not exist in physical form," says Dr. Peter Dueben.

The more data we have, the better the tools function.

Machine Learning tools will get better as we have more and more data.
This means that the tools will be increasingly useful to field scientists.

Chief Data Scientist and Artificial Intelligence (AI) expert at Oxford University, “Using machines helps us measure and monitor the real world, which is key to making better decisions for an uncertain future,” says Dr. Natalyia Tkachenko.

“Artificial Intelligence (AI) in its truest form is not about data, but mostly about finding patterns and connections in the complex world.”

Scientists are successfully using Artificial Intelligence (AI) to produce more detailed images of Earth. Head of the European Space Agency’s Philab Discovery Office, “Artificial Intelligence is very good at providing spatial information; it is one of its superpowers,” says Dr. Pierre-Philippe Mathieu. Copernicus Atmospheric Monitoring Service (CAMS) Director Dr. Vincent Peuch agrees: “It is very effective at comparing satellite imagery and automatically tracking changes in land cover, which is suitable for areas that lack on-site monitoring. It also helps speed up computer models and lower running costs, especially for detailed weather forecasts that require quick turnaround.”



According to Peuch, Copernicus’ Climate Change Service (C3S) and CAMS are testing and using Artificial Intelligence (AI) to detect land and tree cover changes and improve and process air quality forecasts for city scales.

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