Lecture 1

Lecture 1
Jan 3 – 8, 2024   Live topic
#1514 890

How can ML enable and inhibit climate action?

💬 Live interaction

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About Slido **Anonymous**   14 👍
          21 hours ago

I: Machine learning can be computationally demanding, and thus release emissions of its own.

Anonymous   7 👍
21 hours ago

I: ML is relies heavily on data, so bad/biased data can give results that guide us to the wrong direction (edited)

Y **You Know Who**   6 👍
      21 hours ago

E: ML can enable climate action by optimizing resource allocation, predicting environmental changes, and improving energy efficiency

Anonymous   3 👍
21 hours ago

E- ML can be used to forecast future projections of c02 emissions if more renewable energy resources are added to the system.

Anonymous   2 👍
21 hours ago

Early detection of anomalies using ML would help us to be prepared
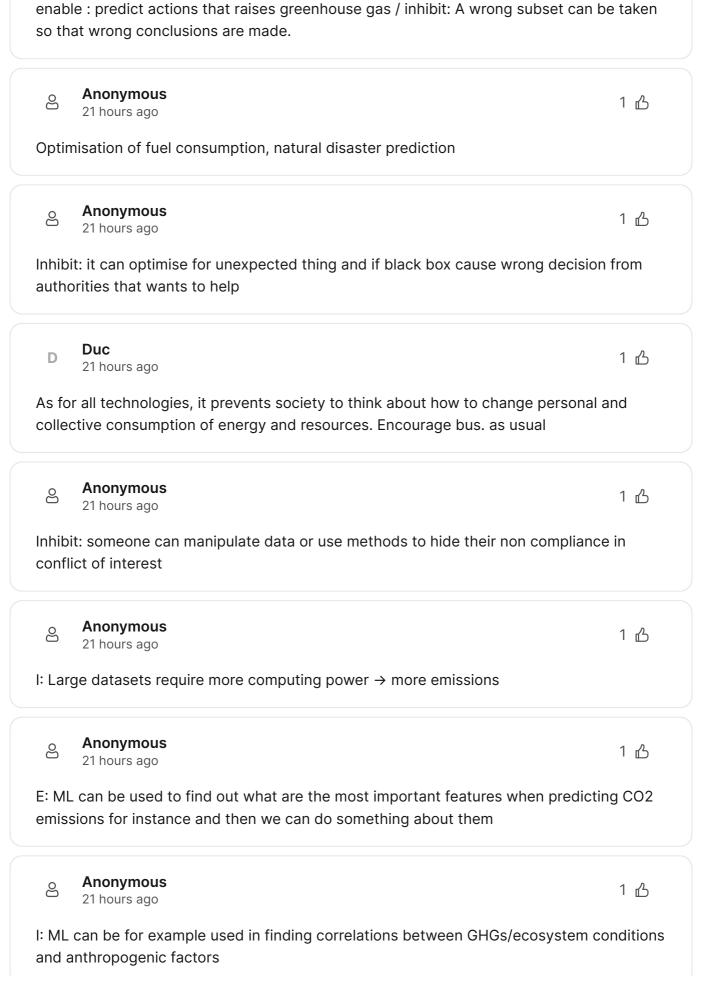
Anonymous
21 hours ago

2 👍

I: ML can be used to generate misinformation on the internet

Anonymous
21 hours ago

2 👍

E: model phenomena that are too complex for humans to fully understand

Anonymous
21 hours ago

2 👍

E: energy system and grid optimizations

You Know Who
21 hours ago

2 👍

I: Training and keeping a large ml model running is energy consuming

Duc
21 hours ago

1 👍

Objective monitoring of GhG emission reduction

Anonymous
21 hours ago

1 👍

I: The conclusions of ML can be misrepresented.

Anonymous
21 hours ago

1 👍

Enable: give a easy to access picture of whats going on to many people.

Anonymous
21 hours ago

1 👍

E: Study of different scenarios for decision making.

Anonymous
21 hours ago

1 👍

enable : predict actions that raises greenhouse gas / inhibit: A wrong subset can be taken so that wrong conclusions are made.

Anonymous
21 hours ago

1 👍

Optimisation of fuel consumption, natural disaster prediction

Anonymous
21 hours ago

1 👍

Inhibit: it can optimise for unexpected thing and if black box cause wrong decision from authorities that wants to help

D Duc
21 hours ago

1 👍

As for all technologies, it prevents society to think about how to change personal and collective consumption of energy and resources. Encourage bus. as usual

Anonymous
21 hours ago

1 👍

Inhibit: someone can manipulate data or use methods to hide their non compliance in conflict of interest

Anonymous
21 hours ago

1 👍

I: Large datasets require more computing power → more emissions

Anonymous
21 hours ago

1 👍

E: ML can be used to find out what are the most important features when predicting CO2 emissions for instance and then we can do something about them

Anonymous
21 hours ago

1 👍

I: ML can be for example used in finding correlations between GHGs/ecosystem conditions and anthropogenic factors

Anonymous
21 hours ago

1 👍

I think it can develop an objective platform to make decisions

Anonymous
21 hours ago

0 👍

E: ML can be used to find significant effects that are at play in an ecosystem.

Anonymous
21 hours ago

0 👍

E: model actions in order to gain robust decision support e.g. for legislators. I: find actions that appear climate friendly, but actually circumvent regulation

Anonymous
21 hours ago

0 👍

Optimizing buildings to lower emissions (make them more sustainable), monitoring emissions to prevent disasters, making more efficient pipes' routes

Anonymous
21 hours ago

0 👍

Enable: reduce need for fules via optimisation

Anonymous
21 hours ago

0 👍

I: Relying on ML to make automated decisions can lead to incorrect actions being taken.

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