
Timnit Gebru

Timnit Gebru's paper

Highlights:

- ❖ Environmental and financial costs
- ❖ Massive data, inscrutable models
- ❖ Research opportunity costs
- ❖ Illusions of meaning

On the Dangers of Stochastic Parrots: Can Language Models Be Too Big?

FAccT '21: Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency

Pages 610 - 623

Carbon Footprint

Common carbon footprint benchmarks

in lbs of CO2 equivalent

Roundtrip flight b/w NY and SF (1 passenger)

1,984

Human life (avg. 1 year)

11,023

American life (avg. 1 year)

36,156

US car including fuel (avg. 1 lifetime)

126,000

Transformer (213M parameters) w/ neural architecture search

626,155

Cost

Amortized hardware and energy cost to train frontier AI models over time

≡ EPOCH AI

