

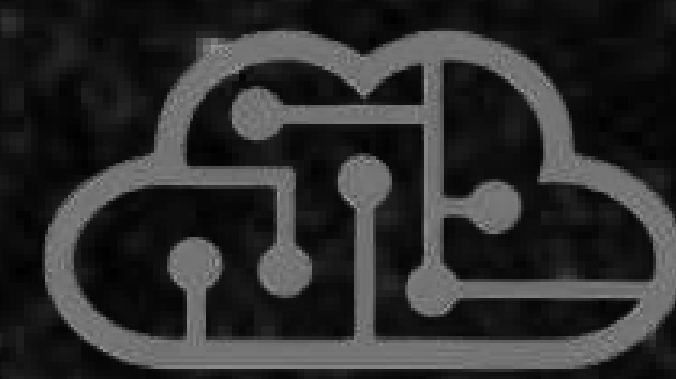
BUILD A PERFECT AI-BASED PROJECT





OVERCOME THE LIMITATIONS OF AI

- We had seen significant achievements in the field of AI in recent years.
- But still, there are certain limitations to this AI technology.
- If you want to build perfect AI applications you need to overcome these limitations.



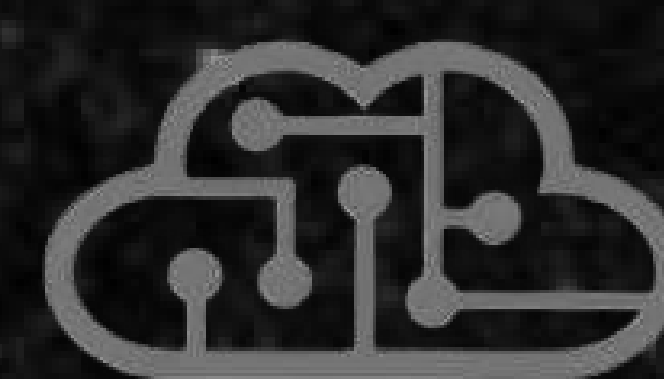
BIAS

- Bias can creep into algorithms in several ways. AI systems learn to make decisions based on training data, which can include biased human decisions or reflect historical or social inequities, even if sensitive variables such as gender, race, or sexual orientation are removed.
- AI bias happens in many ways like when Framing the problem or Collecting the data or Preparing the data



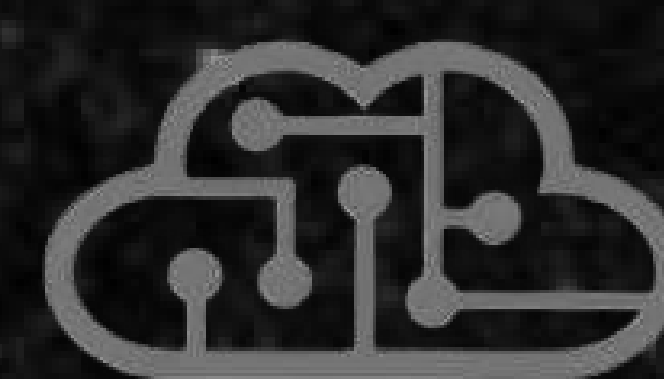
COST

- Finding, storing and analyzing data will be very costly both in terms of energy and hardware use.
- Do you know the training cost of GPT-3 is around \$4.6 million
- Lex Fridman tried to predict the training cost of a model similar to human brain which can cost around ~\$2.6 Billion.



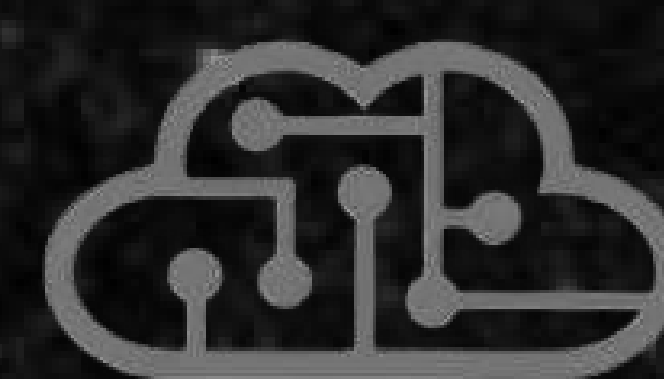
TIME

- Even though technological advancements have been rapidly extending in recent years, there are still some hardware limitations like limited computation resources that we have to overcome.



DATA

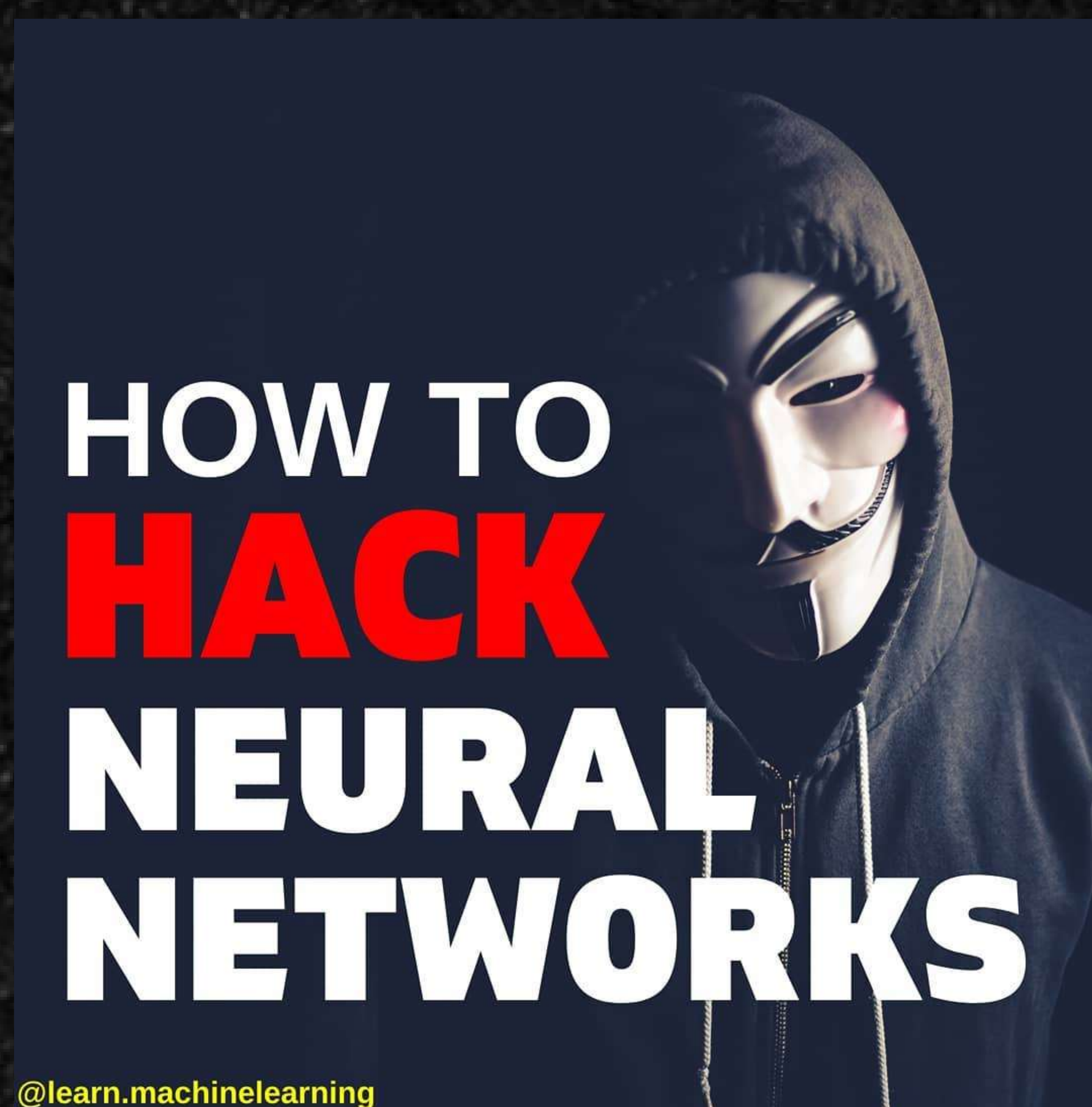
- For prediction or decision models to be trained properly, they need data.
- To build great products we need to have relevant data
- As Andrew Ng says data is the new oil.

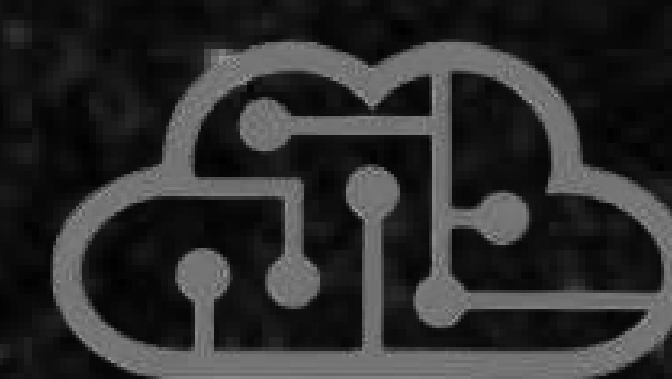


ATTACKS

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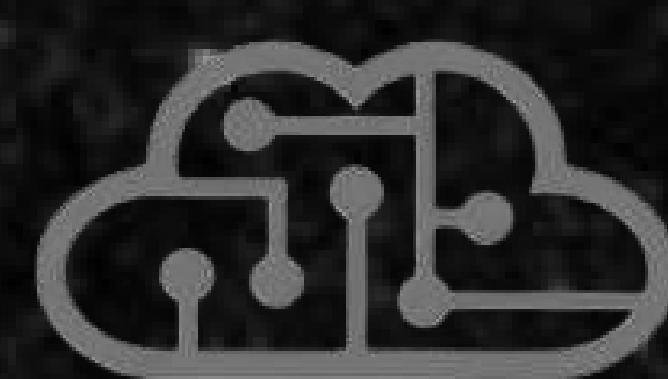
- Adversarial examples are inputs to machine learning models that an attacker has intentionally designed to cause the model to make a mistake; they're like optical illusions for machines.
- You can check this post of mine for more information





SAFETY, ETHICS, AND PRIVACY

- There is still some work to be done in figuring out the limits to which we use AI.
- Current limitations highlight the importance of safety in AI and it must be acted upon swiftly.
- Additionally, most critics of AI argue along lines of the ethics of implementing it, not just in terms of how it makes privacy a forgotten concept, but also philosophically.



BUILD AI FOR SOCIAL GOOD