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- The input text is segmented into smaller units called tokens. These tokens could be words, subwords, or characters, *depending on the specific tokenization <u>scheme</u>*
- Embedding
- Each token is then mapped to a high-dimensional vector representation known as an embedding. There are a *variety of embedding sizes and schemes*. Neural Network
- - Used to predict the next word in a sentence
 Neural networks are based on standard algorithms but there are a variety of ways to design and configure neural networks number of hidden layers and number of nodes per layer

16











Postscript

Bruce Schneier Takeaways (from Zoom at Kwaai Conference)

LLMs are not your friend

- Their language is seductive they sound like us and we tend to trust those who sound like us
- They act as our agents but they are double agents created by companies that have their own agendas

Bruce Schneier's Monthly Newsletter: https://www.schneier.com/crypto-gram/

Microsoft Is Spying on Users of Its Al

Tools [2024.02.20] Microsoft announced that it <u>caught</u> Chinese, Russian, and Iranian hackers using its AI tools presumably coding tools—to improve their hacking abilities

From their report:

In collaboration with OpenAI, we are sharing threat intelligence showing detected state affiliated adversaries-tracked as Forest Bitzard, Emerald Sieet, Criminon Sandstorm, Charcoal Typhoon, and Salmon Typhoon—using LLMs to augment cyberoperations.

The only way Microsoft or OpenAI would know this would be to spy on chatbot sessions. I'm sure the terms of service —if I bothered to read them—gives them that permission. And of course it's no surprise that Microsoft and OpenAI (and, presumably, everyone else) are spying on our usage of AI, but this confirms it.

26

Reference to tracking openness article

Opening up ChatGPT: Tracking openness, transparency, and accountability in instruction-tuned text generators • https://dl.acm.org/doi/abs/10.1145/3571884.3604316

Website: <u>https://opening-up-chatgpt.github.io/</u>



27

25

28