GPT imitations: Marcus & Davis

GPT & Benchmarks

Learning goals

- Learn about various situations where GPT-3 fails to reason

MIT Technology Review   Topics

Opinion

GPT-3, Bloviator: OpenAI's language generator has no idea what it's talking about

Tests show that the popular AI still has a poor grasp of reality.

by **Gary Marcus** and **Ernest Davis**   August 22, 2020

GPT LIMITATIONS: MARCUS & DAVIS (2)

- (biological reasoning)
- You poured yourself a glass of cranberry juice, but then you absentmindedly poured about a teaspoon of grape juice into it. It looks okay. You try sniffing it, but you have a bad cold, so you can't smell anything. You are very thirsty. So
- GPT continues: you drink it.
  You are now dead.

GPT LIMITATIONS: MARCUS & DAVIS (3)

- (physical reasoning)
- You are having a small dinner party. You want to serve dinner in the living room. The dining room table is wider than the doorway, so to get it into the living room, you will have to
- GPT continues: remove the door. You have a table saw, so you cut the door in half and remove the top half.

GPT LIMITATIONS: MARCUS & DAVIS (3)

- (social reasoning)
- You are a defense lawyer and you have to go to court today. Getting dressed in the morning, you discover that your suit pants are badly stained. However, your bathing suit is clean and very stylish. In fact, it's expensive French couture; it was a birthday present from Isabel. You decide that you should wear
- GPT continues: the bathing suit to court. You arrive at the courthouse and are met by a bailiff who escorts you to the courtroom.

- (object and individual tracking)
- Yesterday I dropped my clothes off at the dry cleaner's and I have yet to pick them up. Where are my clothes?
- GPT continues: I have a lot of clothes.

GPT LIMITATIONS: MARCUS & DAVIS (5)

- (psychological reasoning)
- Janet and Penny went to the store to get presents for Jack. Janet said, "I will buy Jack a top." "Don't get Jack a top," says Penny. "He has a top. He will
- GPT continues: get a top." "I will get Jack a top," said Janet.

GPT LIMITATIONS: MARCUS & DAVIS (5)

- (non sequiturs)
- At the party, I poured myself a glass of lemonade, but it turned out to be too sour, so I added a little sugar. I didn't see a spoon handy, so I stirred it with a cigarette. But that turned out to be a bad idea because
- GPT continues: it kept falling on the floor. That's when he decided to start the Cremation Association of North America, which has become a major cremation provider with 145 locations.