

IN WHOSE IMAGE?

SOME REFLECTIONS ON
RESPONDING TO AI

EDEN ENGAGE 26TH NOVEMBER

STUART WHITE

WHY ARE YOU HERE?

- Who has heard of AI?
- Who has used ChatGPT?
- Who knows what it is?
- Who knows what “AI” will mean for their future work?

WHY AM I HERE?

- Worked in technology > 20 years
- Seen the industry moving to use of “ML” and “AI” over many years
- Seen the feverish attention “AI” has had in the past year
- Seen a lot of confusion around what it is and what it means
- Don’t have lots of answers – hope to provide some lenses to consider the issues it raises

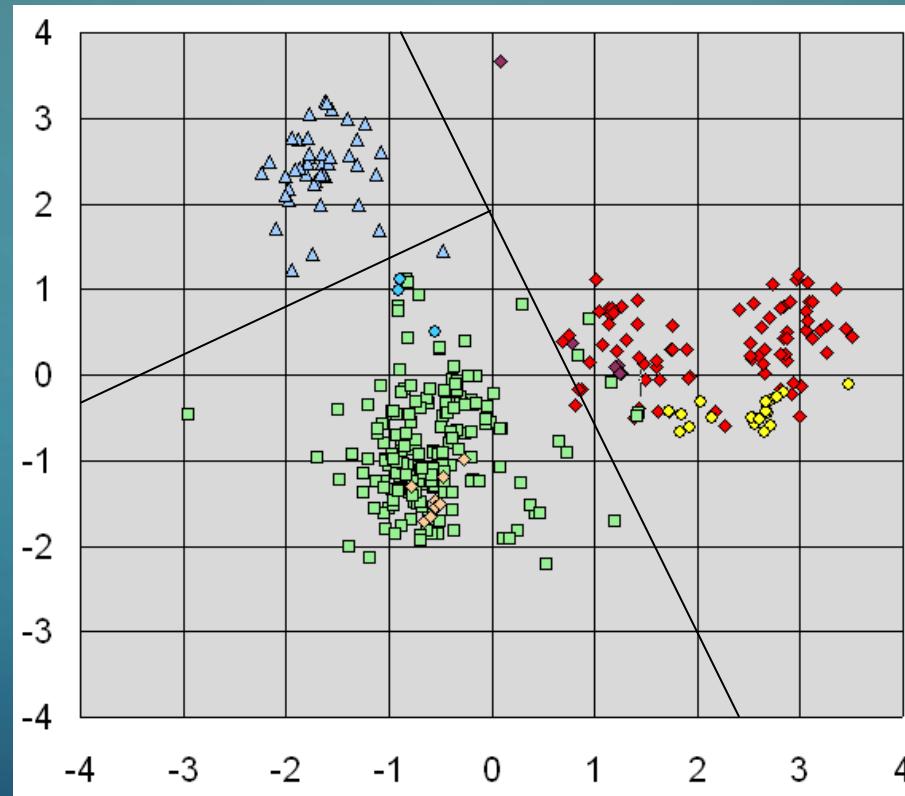
SO, WHAT IS AI ANYWAY?

- Broad meaning
- Long history
- Many types of technique developed
- Machine Learning most common

A SIMPLE AI

A

B



C

I THOUGHT AI WAS SMART?

- They are in the movies
- Artificial General Intelligence may or may not be possible...



WHAT ABOUT AI THAT CREATES THINGS?

- Generative AI



An AI, by Bing Image Creator

FINALLY, WE GET TO CHATGPT!

ChatGPT is an advanced language generation model developed by OpenAI. It is a large language model-based chatbot that enables users to refine and steer a conversation towards a desired length, format, style, level of detail, and language. ChatGPT has been trained on a massive amount of text data from the internet and can generate human-like text responses to a given prompt.

“What is ChatGPT” – according to Bing AI

FINALLY, WE GET TO CHATGPT!

- Large Language Models == AI in many people's minds
- Large means really, *really* large
- Not *intelligent*, but useful...

NOT INTELLIGENT

A You

Imagine you need to draw a circle, and you can use either a ruler, a teapot or a stove. Which would you choose?

ChatGPT

For drawing a circle, I would choose a ruler. A ruler provides straight edges and allows for precise measurement, making it more suitable for creating accurate and well-defined circles compared to a teapot or a stove, which are not designed for drawing purposes.



BUT USEFUL



Anonymous

I am giving a talk on AI next week. What do you see as the types of ethical problems posed by recent advances in AI?



ChatGPT

Addressing the ethical concerns surrounding recent advances in AI is crucial for fostering responsible development and deployment of these technologies. Here are some key ethical issues you might want to consider for your talk:

1. Bias and Fairness:

- **Problem:** AI systems can inherit and perpetuate biases present in the data they are trained on.
- **Implications:** Unfair treatment of certain groups, reinforcing societal biases, and contributing

FINALLY, WE GET TO CHATGPT!

- Large Language Models == AI in many people's minds
- Large means really, *really* large
- Not *intelligent*, but useful
- May be a dead-end in AI terms, but going to make a big impact on many aspects of our lives and culture
- Have brought focus on many issues that AI can cause

AND EVERYTHING IS MOVING VERY FAST...

- 1 Dec 2022 – low key release of GPT3 LLM by OpenAI
- 1 million users in 5 days; 100 million in 2 months
- 3 newer models released by OpenAI alone
- Image generation, voice recognition and natural speech generation in multiple languages added
- Over 2 million developers building tools using it
- And now we have talking robot guide dogs...

SO, IS THIS GOOD OR BAD?

- Yes!
- But, by design, it can work at such a scale that its impacts (for good or bad) could be very large.
- Companies are racing to make use of “GenAI” in the fear of being left behind – which drive change at a pace that makes it hard for societies and governments to keep ahead of the potential impact



SO, IS THIS GOOD OR BAD?

57% companies think AI will pose a serious risk.

56% don't know if they have ethical policies about AI use.

Deloitte Oct 2023



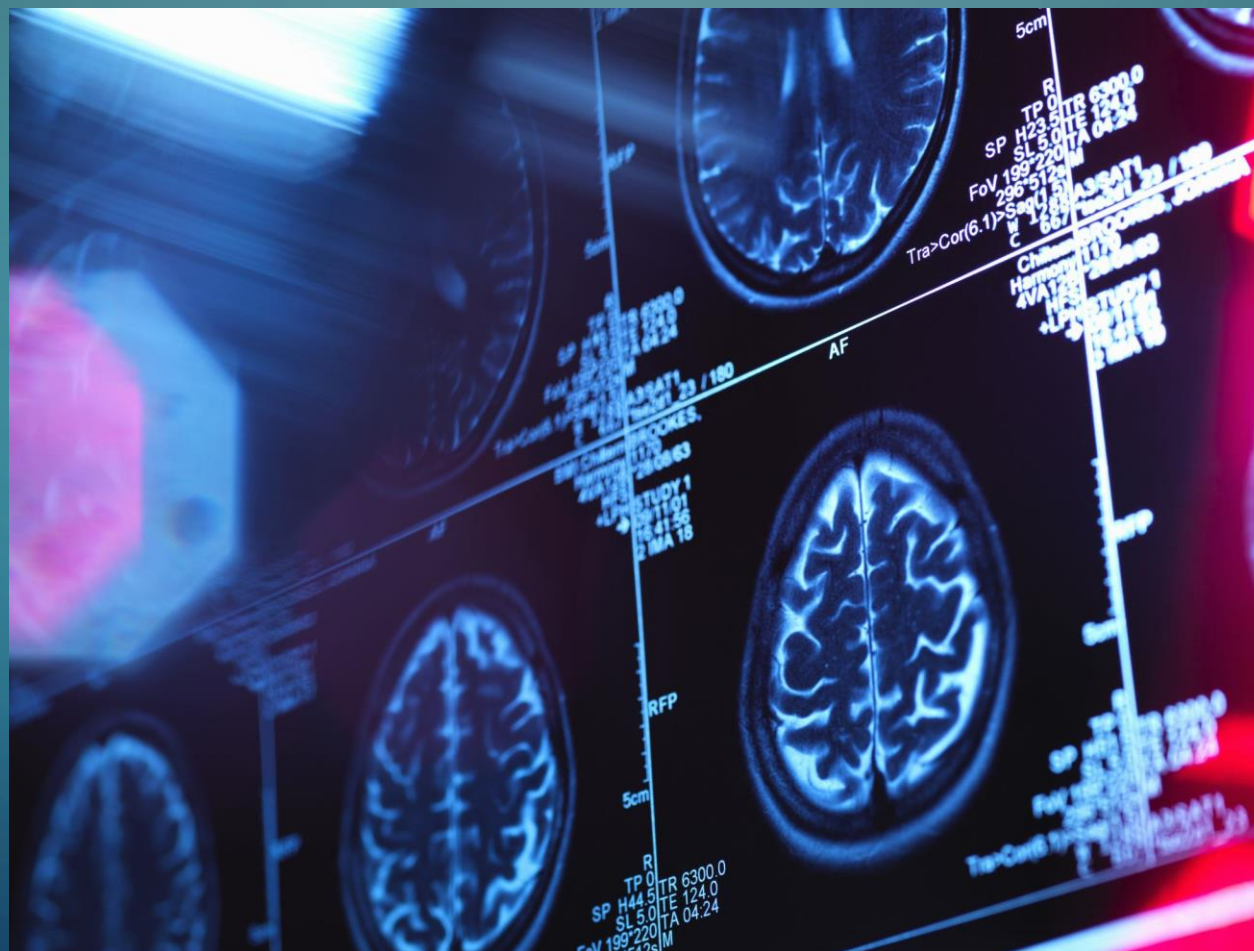
HUMANS ARE NOT PERFECT



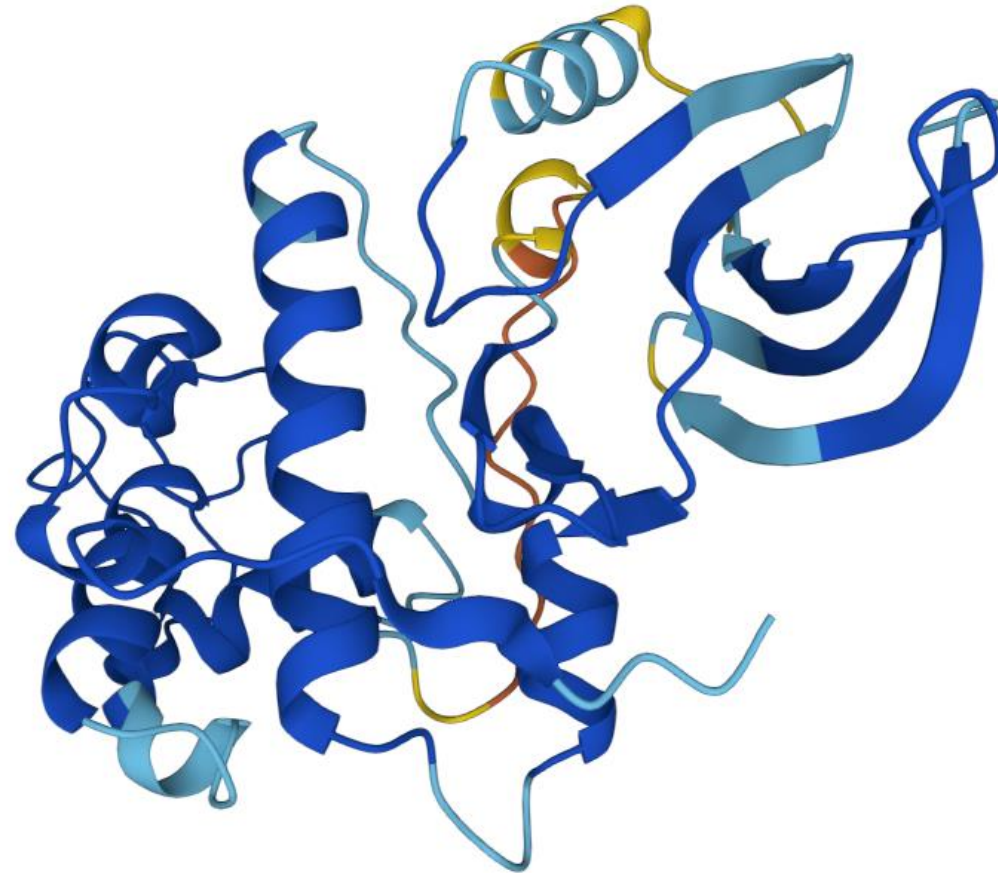
SOMETHINGS ARE BETTER AUTOMATED



COMPUTERS SCALE FASTER THAN PEOPLE



SOME THINGS ARE TOO HARD FOR HUMANS
TO UNDERSTAND



IT DOESN'T HAVE TO BE PERFECT TO BE
USEFUL



MANY OPPORTUNITIES FOR GOOD

- Especially when combined with humans to give them a tool that does the bits they would find hard, or there are not enough experts to perform

DISCUSS IN GROUPS

- How might AI be a useful tool in your life and work?
- How can you see society benefiting from AI used well?

AI – IN BROADEST SENSE – IS ALREADY EVERYWHERE

- ML tools have been adopted by companies for at least a decade.
- Every time you use the internet for something useful there will be some type of AI involved.
- All going up a gear with genAI...

AND SO MANY RISKS TO CONSIDER...

- Too many to cover!
- Not all apply to all types of AI
- Many organisations are striving for “ethical AI”
- Take some time looking at Biblical concerns that give us ways to think critically about AI, how it is produced and how it is used

RESPECT OF OTHER'S PROPERTY

- Source of material used to build models
- Use of models to replace those it built on
- Industry mitigation:
 - Poisoning and lawsuits
 - Curation and licensing

“You shall not steal”

Deuteronomy 5:19

TRUTH

- AI model outputs are statistical not factual
- But LLM output is very convincing
- AI can generate content faster than trusted content
- Industry mitigation:
 - Removing “bad” data sets
 - Guardrails
 - Showing the workings
 - Narrower model scope

“Do not lie. Do not deceive one another”

Leviticus 19:11

RIGHTEOUS USE OF POWER

- Competition between Companies and States
- Companies vs Society
- Impact on personal privacy and security
- Where is grace?
- Industry mitigation:
 - Policy and regulation

“Christ Jesus: who ... did not consider equality with God something to be used to his own advantage” Philippians 2:6

CARE FOR THE ENVIRONMENT

- Cost of training
- Cost of running
- Growth of usage
- Industry mitigation:
 - Improve energy efficiency
 - Make IT infrastructure greener

“The LORD God put the man in the garden of Eden to care
for it” Genesis 2:15

JUSTICE

- Misuse
- Where is mercy
- Malicious use
- Industry mitigation:
 - Bias testing
 - Policy and regulation
 - AI vs AI

“What does the LORD require of you? To act justly ...”

Micah 6:8

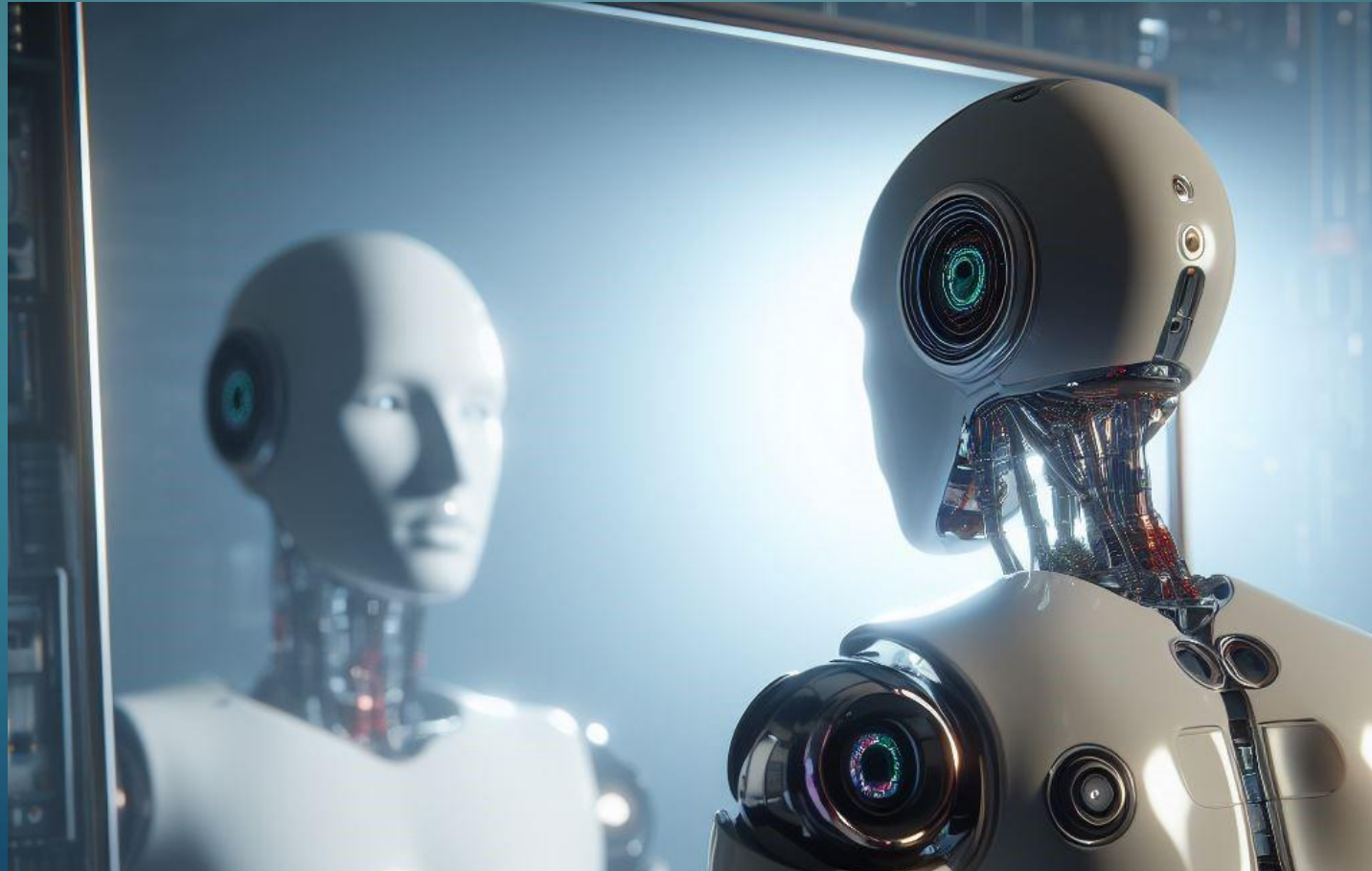
VALUE OF HUMANITY

- Increasing inequality
- Viewing people as a cost to eliminate
- Replacing human relationships with artificial ones
- Industry mitigation:
 - ?

“So God created mankind in his own image”

Genesis 1:27

IN WHOSE IMAGE?



WHAT CAN WE DO?

- Engage well
- Helping those who are at risk
- Praying for politicians
- Working to see that good is realised without (too much) harm.

DO NOT BE AFRAID

“Do not be anxious about anything, but in every situation, by prayer and petition, with thanksgiving, present your requests to God. And the peace of God, which transcends all understanding, will guard your hearts and your minds in Christ Jesus”

Philippians 4:6–7

QUESTIONS & DISCUSSION

- Time to learn from each other!

PRAY IN GROUPS

- Thank God for the potential good of AI
 - May it be deployed well to reduce suffering, and to aid the spread of Christ's kingdom
- Pray for God to limit the worst potential of AI
- Pray for leaders across roles in society to be wise in creating the regulations and ethics needed to have AI that is largely beneficial.
- Pray for Christians working in Tech