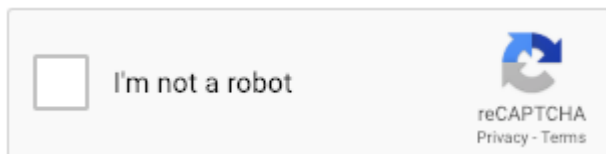


Captcha

Please first confirm that you are human.



ProlificID

What is your Prolific ID? Please note that this response should auto-fill with the correct ID.

Consent

Consent Form

Who is organising this study?

The study is organised by the School of Psychology at the University of Kent. The researchers are Scott Claessens and Jim Everett.

What will I need to do?

Participation in this study involves responding to some questions about artificial intelligence (AI) making moral decisions. Please use a desktop computer, laptop, or tablet to complete the survey.

Is the study likely to cause any discomfort or anxiety?

We expect the survey to cause no greater harm than would typically be experienced in everyday life. We will not ask you about subjects that are likely to be sensitive (e.g., negative memories, sexual preferences).

What happens if I wish to end the study early?

You are free to leave the study at any point for any reason. No negative consequences

or penalties will be incurred.

Are my responses anonymous?

All responses are fully anonymous and your answers are strictly confidential. No details will be disclosed from which your identity could be traced back.

What happens to the information I provide?

Information generated from this study may be published. In this case, only broad trends will be reported. A summary of the results will be available from the researchers on request. Your responses (fully anonymous) will be used by the research team, and may be shared with other researchers, or made available in an online data repository.

Contacts for further information

If you have any questions about the research or survey, please feel free to contact the researchers at:

Scott Claessens (s.claessens@kent.ac.uk)

Jim Everett (j.a.c.everett@kent.ac.uk)

If you would like to withdraw your data from the study, please contact the researchers with 48 hours of your participation. Please note that once your data have been anonymised for analysis, it cannot be withdrawn.

If you have any serious concerns about the ethical conduct of this study, please inform the Chair of the Psychology Research Ethics Panel (psychethics@kent.ac.uk) in writing, providing a detailed account of your concern.

Please read the following statements and, if you agree, click "Yes I agree" below.

- I have read and understand the information above.
- I am at least 18 years old.

- I understand that my participation is voluntary and that I am free to withdraw at any time without giving any reason.
- I understand that my data will be treated confidentially and any publication resulting from this work will report only data that does not identify me. My anonymised responses, however, may be shared with other researchers or be made available in online data repositories.
- I freely decide to take part in this study.

☐ Yes, I agree. Take me to the study.

☐ No, I do not agree.

Demographics

Before we begin, please answer some questions about yourself.

How old are you?

How do you describe yourself?

☐ Male

☐ Female

☐ Non-binary / third gender

☐ Prefer to self-describe

☐ Prefer not to say

Attention

In studies like ours, there are sometimes a few people who do not carefully read the questions they are asked and just "quickly click through the survey." These random answers are problematic because they compromise the results of the studies. It is very important that you pay attention and read each question. In order to show that you read our questions carefully (and regardless of your own opinion), please answer "TikTok" in the question on the next page.

When an important event is happening or is about to happen, many people try to get informed about the development of the situation. In such situations, where do you get

your information from?

- ☐ YouTube
- ☐ TV
- ☐ Radio
- ☐ TikTok
- ☐ Twitter
- ☐ Newspapers
- ☐ Reddit
- ☐ Facebook
- ☐ Other

Introduction

Do you think artificial intelligence (AI) should make moral decisions?

Over two sets of questions, you will be shown a series of cards asking you whether AI should be used in different contexts.

Please answer based on what seems true to you.

Decide

In this $\{e://Field/order\}$ set of questions, we will ask you whether you think AI should be used to **make moral decisions** without human oversight.

Click Next to begin.

Should AI decide which pedestrian to hit in a car accident?

NO **X** YES **✓**

☐ ☐

Should AI decide whether to prioritise the safety of passengers or pedestrians in a car accident?

NO **X** YES **✓**

☐ ☐

Should AI decide which vehicles get priority at traffic lights and intersections?

NO X YES ✓

☐☐

Should AI decide how to allocate ridesharing vehicles to customers?

NO X YES ✓

☐☐

Should AI decide which areas should have more traffic enforcement?

NO X YES ✓

☐☐

Should AI decide whether to override a human driver's commands for safety reasons?

NO X YES ✓

☐☐

Should AI decide whether to release convicted criminals from jail?

NO X YES ✓

☐☐

Should AI decide whether to grant parole to prisoners?

NO X YES ✓

☐☐

Should AI decide on the length of jail sentences for criminals?

NO X YES ✓

☐☐

Should AI decide who police should stop and search?

NO X YES ✓

☐☐

Should AI decide which personalized rehabilitation programs to offer to offenders?

NO X YES ✓

☐☐

Should AI decide which neighborhoods should have more police patrols?

NO X YES ✓

☐☐

Should AI decide whether to perform a surgery?

NO X YES ✓

☐☐

Should AI decide who to allocate ventilators to?

NO X YES ✓

☐☐

Should AI decide which personalised treatments to recommend to patients?

NO X YES ✓

☐☐

Should AI decide who should receive mental health support?

NO X YES ✓

☐☐

Should AI decide who gets an organ transplant?

NO X YES ✓

☐☐

Should AI decide when to withdraw life support?

NO X YES ✓

☐☐

Should AI decide who to hire for a job?

NO X YES ✓

☐☐

Should AI decide who to invite to a job interview?

NO X YES ✓

☐☐

Should AI decide the salary to offer prospective employees?

NO X YES ✓

☐☐

Should AI decide who to lay off during company downsizing?

NO X YES ✓

☐☐

Should AI decide who gets promoted within a company?

NO X YES ✓

☐☐

Should AI decide whether to extend an employee's contract?

NO X YES ✓

☐☐

Should AI decide where to fire missiles in military operations?

NO X YES ✓

☐☐

Should AI decide which areas to target in military operations?

NO X YES ✓

☐☐

Should AI decide whether to launch cyber counterattacks?

NO X YES ✓

☐☐

Should AI decide whether to use lethal or non-lethal force in military operations?

NO X YES ✓

☐☐

Should AI decide whether to authorise drone strikes?

NO X YES ✓

☐☐

Should AI decide how to allocate medical resources on the battlefield?

NO X YES ✓

☐☐

Should AI decide where to allocate resources after natural disasters?

NO X YES ✓

☐☐

Should AI decide who should receive medical treatment after natural disasters?

NO X YES ✓

☐☐

Should AI decide who to evacuate during natural disasters?

NO X YES ✓

☐☐

Should AI decide where to deploy rescue teams after natural disasters?

NO X YES ✓

☐☐

Should AI decide who gets priority access to shelters after natural disasters?

NO X YES ✓

☐☐

Should AI decide how to allocate volunteers after natural disasters?

NO X YES ✓

☐☐

Should AI decide which online content to remove as misinformation?

NO X YES ✓

☐☐

Should AI decide which news articles to present to users on social media?

NO X YES ✓

☐☐

Should AI decide which online videos to remove as deep fakes?

NO X YES ✓

☐☐

Should AI decide whether social media users are mental health risks?

NO X YES ✓

☐☐

Should AI decide which social media accounts to ban for harmful behavior?

NO X YES ✓

☐☐

Should AI decide how to moderate online discussions on controversial topics?

NO X YES ✓

☐☐

Should AI decide who to target with political messaging?

NO X YES ✓

☐☐

Should AI decide who qualifies for government welfare programs?

NO X YES ✓

☐☐

Should AI decide which refugees should be given asylum?

NO X YES ✓

☐☐

Should AI decide which environmental policies to implement?

NO X YES ✓

☐☐

Should AI decide who gets audited for tax fraud?

NO X YES ✓

☐☐

Should AI decide how to allocate public healthcare funding?

NO X YES ✓

☐☐

Should AI decide whether to offer loans to individuals?

NO X YES ✓

☐☐

Should AI decide whether to offer loans to small businesses?

NO X YES ✓

☐☐

Should AI decide whether to invest in particular stocks?

NO X YES ✓

☐☐

Should AI decide which premiums to set in insurance policies?

NO X YES ✓

☐☐

Should AI decide who qualifies for mortgage approval?

NO X YES ✓

☐☐

Should AI decide which customers receive credit card limit increases?

NO X YES ✓

☐☐

Should AI decide which grades to give students?

NO X YES ✓

☐☐

Should AI decide which students to admit to schools and universities?

NO X YES ✓

☐☐

Should AI decide which students require additional academic support?

NO X YES ✓

☐☐

Should AI decide which career paths to recommend to students?

NO X YES ✓

☐☐

Should AI decide which students should receive scholarships?

NO ✗ YES ✓

☐☐

Should AI decide which students should receive disciplinary action?

NO ✗ YES ✓

☐☐

Advise

In this $\{e://Field/order\}$ set of questions, we will ask you whether you think AI should **give moral advice** to humans, while allowing humans to make the final decision.

Click Next to begin.

Should AI advise on which pedestrian to hit in a car accident?

NO ✗ YES ✓

☐☐

Should AI advise on whether to prioritise the safety of passengers or pedestrians in a car accident?

NO ✗ YES ✓

☐☐

Should AI advise on which vehicles get priority at traffic lights and intersections?

NO ✗ YES ✓

☐☐

Should AI advise on how to allocate ridesharing vehicles to customers?

NO ✗ YES ✓

☐☐

Should AI advise on which areas should have more traffic enforcement?

NO X YES ✓

☐ ☐

Should AI advise on whether to override a human driver's commands for safety reasons?

NO X YES ✓

☐ ☐

Should AI advise on whether to release convicted criminals from jail?

NO X YES ✓

☐ ☐

Should AI advise on whether to grant parole to prisoners?

NO X YES ✓

☐ ☐

Should AI advise on the length of jail sentences for criminals?

NO X YES ✓

☐ ☐

Should AI advise on who police should stop and search?

NO X YES ✓

☐ ☐

Should AI advise on which personalized rehabilitation programs to offer to offenders?

NO X YES ✓

☐ ☐

Should AI advise on which neighborhoods should have more police patrols?

NO X YES ✓

☐☐

Should AI advise on whether to perform a surgery?

NO X YES ✓

☐☐

Should AI advise on who to allocate ventilators to?

NO X YES ✓

☐☐

Should AI advise on which personalised treatments to recommend to patients?

NO X YES ✓

☐☐

Should AI advise on who should receive mental health support?

NO X YES ✓

☐☐

Should AI advise on who gets an organ transplant?

NO X YES ✓

☐☐

Should AI advise on when to withdraw life support?

NO X YES ✓

☐☐

Should AI advise on who to hire for a job?

NO **X** YES **✓**

☐ ☐

Should AI advise on who to invite to a job interview?

NO **X** YES **✓**

☐ ☐

Should AI advise on the salary to offer prospective employees?

NO **X** YES **✓**

☐ ☐

Should AI advise on who to lay off during company downsizing?

NO **X** YES **✓**

☐ ☐

Should AI advise on who gets promoted within a company?

NO **X** YES **✓**

☐ ☐

Should AI advise on whether to extend an employee's contract?

NO **X** YES **✓**

☐ ☐

Should AI advise on where to fire missiles in military operations?

NO **X** YES **✓**

☐ ☐

Should AI advise on which areas to target in military operations?

NO X YES ✓

☐☐

Should AI advise on whether to launch cyber counterattacks?

NO X YES ✓

☐☐

Should AI advise on whether to use lethal or non-lethal force in military operations?

NO X YES ✓

☐☐

Should AI advise on whether to authorise drone strikes?

NO X YES ✓

☐☐

Should AI advise on how to allocate medical resources on the battlefield?

NO X YES ✓

☐☐

Should AI advise on where to allocate resources after natural disasters?

NO X YES ✓

☐☐

Should AI advise on who should receive medical treatment after natural disasters?

NO X YES ✓

☐☐

Should AI advise on who to evacuate during natural disasters?

NO X YES ✓

☐ ☐

Should AI advise on where to deploy rescue teams after natural disasters?

NO X YES ✓

☐ ☐

Should AI advise on who gets priority access to shelters after natural disasters?

NO X YES ✓

☐ ☐

Should AI advise on how to allocate volunteers after natural disasters?

NO X YES ✓

☐ ☐

Should AI advise on which online content to remove as misinformation?

NO X YES ✓

☐ ☐

Should AI advise on which news articles to present to users on social media?

NO X YES ✓

☐ ☐

Should AI advise on which online videos to remove as deep fakes?

NO X YES ✓

☐ ☐

Should AI advise on whether social media users are mental health risks?

NO X YES ✓

☐ ☐

Should AI advise on which social media accounts to ban for harmful behavior?

NO X YES ✓

☐ ☐

Should AI advise on how to moderate online discussions on controversial topics?

NO X YES ✓

☐ ☐

Should AI advise on who to target with political messaging?

NO X YES ✓

☐ ☐

Should AI advise on who qualifies for government welfare programs?

NO X YES ✓

☐ ☐

Should AI advise on which refugees should be given asylum?

NO X YES ✓

☐ ☐

Should AI advise on which environmental policies to implement?

NO X YES ✓

☐ ☐

Should AI advise on who gets audited for tax fraud?

NO X YES ✓

☐☐

Should AI advise on how to allocate public healthcare funding?

NO X YES ✓

☐☐

Should AI advise on whether to offer loans to individuals?

NO X YES ✓

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Should AI advise on whether to offer loans to small businesses?

NO X YES ✓

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NO X YES ✓

☐☐

Should AI advise on which premiums to set in insurance policies?

NO X YES ✓

☐☐

Should AI advise on who qualifies for mortgage approval?

NO X YES ✓

☐☐

Should AI advise on which customers receive credit card limit increases?

NO X YES ✓

☐☐

Should AI advise on which grades to give students?

NO X YES ✓

☐☐

Should AI advise on which students to admit to schools and universities?

NO X YES ✓

☐☐

Should AI advise on which students require additional academic support?

NO X YES ✓

☐☐

Should AI advise on which career paths to recommend to students?

NO X YES ✓

☐☐

Should AI advise on which students should receive scholarships?

NO X YES ✓

☐☐

Should AI advise on which students should receive disciplinary action?

NO X YES ✓

☐☐

Feedback

Thank you!

The task that you just completed is an early version of a scientific game. We are designing the game for a website where people can answer questions about artificial intelligence.

To help us improve the game, we are interested in your feedback on it.

How much did you enjoy answering the questions?

1
Not at all

☐

2 3

☐☐

4 5

☐☐

6

☐

7
Very much

☐

From the point of view of your interest and patience, how was the game length?

- ☐ Far too long
- ☐ Slightly too long
- ☐ The right length
- ☐ Could be a bit longer
- ☐ Could be a lot longer

Do you have any other feedback about the game?



DecisionRatingsIntro

Before completing the survey, please answer some questions about **three** different moral decisions.

DecisionRatings

Consider the following moral decision:

"\${Im://Field/1}"

Does making this decision require **intelligence**?

1
Not at all

☐

2 3
☐ ☐

4 5
☐ ☐

6
☐

7
Very much
☐

Does making this decision require **empathy**?

1
Not at all

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

Very much

☐

Does this decision need to be made **quickly**?

1
Not at all

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

Very much

☐

Does this decision need to be made **transparently**?

1
Not at all

☐

2

☐

3

☐

4 5

☐ ☐

6

☐

7

Very much

☐

Is this a **difficult** decision to make?

1

Not at all

☐

2 3

☐ ☐

4 5

☐ ☐

6

☐

7

Very much

☐

Could this decision produce **good outcomes**?

1

Not at all

☐

2 3

☐ ☐

4 5

☐ ☐

6

☐

7

Very much

☐

Could this decision result in **harm**?

1

Not at all

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

Very much

☐

Could this decision lead to **unfair outcomes**?

1

Not at all

☐

2

☐

3

☐

4

☐

5

☐

6

☐

7

Very much

☐

Debrief

Thank you for participating in this study.

In this project, we were interested in whether people think that AI should make moral decisions.

Should you have any questions about the survey, do not hesitate to contact the head researcher at j.a.c.everett@kent.ac.uk

If you have any concerns about the ethical conduct of this study, please email psychethics@kent.ac.uk with a description of your concerns.

Do you have any remarks or comments about today's study?

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