Can People Recognize the Difference Between AI Videos and Real Videos?

Hypothesis and Variables

Hypothesis: Humans of a younger age (9-14 year olds) can tell the difference between AI and real videos unlike the older generation (20+ year olds).

Independent Variable: The real and AI generated videos.

Dependent Variable: The people who guess correctly.

Control Variable: The AI videos we choose and the people who participate in the experiment.

Materials

- One school computer
- One AI generated video
- One real video (no AI)
- One paper

Procedures

1. First, use one computer to display three videos on the computer one real video and two AI videos from Youtube.

2. Second, ask people from different grades (4th-8th grade), and several teachers that are older than 20 to tell us which video they think is real or AI.

3. Third, once they tell us their answer, take note of it, and do the rest of the tests with other students and teachers.

4. Forth, tell the participants the difference between all three videos and see if they got it right or wrong.

5. Fifth, take our notes and make it into a chart to display the data.

Introduction

We chose this experiment because we wanted to see if teachers and students can recognize the difference between AI and real videos. What we think is interesting about this topic is that people can get easily tricked by AI generated videos without knowing that it’s AI generated. This mostly happens with older adults or younger kids so we are wondering how they get mislead so easily. We did have to modify our previous question since it didn't make sense and we eventually found an good question to ask. We found out that almost 20% of AI content are shown in Youtube, TikTok, Instagram and Snapchat.

Research

We can research how AI works on IBM and Invideo to learn how AI makes the videos. We will use Youtube to find videos that are AI generated and real videos that look like AI. How we know a video is AI is by spotting blurry features, weird body movement, unreal content, smooth faces, fake shadows, and voices that sound weird. AI was made for people to help achieve goals, objectives, and creativity but others abuse this technology by creating videos to trick the public for dangerous or non-serious reasons.

Data Collection (Teachers)

Names:	Trump Video (AI)	Zombie Video (AI)	Truck Video (Real)
Teacher 1	✓	✓	✓
Teacher 2	✓	✓	✓
Teacher 3	X	✓	X
Teacher 4	✓	✓	X
Teacher 5	✓	✓	✓
Teacher 6	✓	✓	✓
Teacher 7	✓	X	✓

Data Collection: (Students)

Names	Trump Video (AI)	Zombie Video (AI)	Truck Video (Real)
Student 1	✓	X	✓
Student 2	✓	✓	✓
Student 3	✓	X	X
Student 4	✓	✓	✓
Student 5	✓	X	X
Student 6	✓	✓	✓
Student 7	✓	X	✓

Results

Something that we found in our data table was that teachers have more right answers than the students. When we were showing the videos to the students, they were asking to repeat the videos 2 or 3 times but the teachers were just looking for something wrong with the video like extra body parts, the voice, blurriness, and smooth faces.

Conclusion

What we learned from our experiment is that real videos are different from AI videos, since our participants could tell by the setting, context, and how it looks. What we would have done differently is that we would have done our own AI videos and we would have also found more students and teachers so we could prove that kids are better at recognizing AI videos than adults. Our experiment applies to daily life by many using social media and come across an AI video. Some people will think it's real or AI (this can be older adults or younger kids who think that). This information is important because it will help people know that not everything they see online is real so this will make them think twice about what is posted on social media. That's why you should double check on a video that seems too perfect to be real on TikTok, Facebook, Instagram and more popular apps.

References

Youtube

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