

### CCS1090d Academic English Skills Week 7 – Session 2

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## Aims of today's lesson

- Computing and Ethics
- ■TED Talk 2 Discussion
- Listening Skills (locating key information)
- Speaking Skills (expressing opinion)
- •Reading Skills (additional reading)



Go to Google Images https://images.google.com/ and do a search a search on... Computer Scientist

- 1. What do you see?
- 2. Who do you see?
- 3. Who do you expect to see? / Who is missing?
- 4. How does the information provided by these images influence you?
- 5. Does this tell us anything about how population is represented or misrepresented?

### Comments – What do you think?



"If you have a dark complexion, you will need brighter lighting otherwise it will be hard for you to be seen. If you have a light complexion, you will need darker lighting otherwise it will be hard for you to be seen."

"It isn't racism, it is simply the limitations of our technology not being able to see dark colours in dark light, and light colours in bright light. Would we accept a technology that recognises women but doesn't recognise men? Absolutely not."

Taken from:

https://www.ted.com/talks/joy buolamwini how i m fighting bias in algorithms/discussionPlanguage=en

# Quiz knowledge: who or what are these? Search online!



Digital Millennium Copyright Act (DMCA)

European Union Copyright Directive (EUCD)

Computer Misuse Act

Hacker's Manifesto

UK Data Protection Act (DPA) World Intellectual Property Organisation (WIPO)

Digital Rights Management (DRM) software

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- Cybercrime
- Email forgery
- Keylogger
- Malware
- Hacker
- Trojan
- Computer fraud
- Identity theft
- Phishing
- Botnet: a group of computers that are controlled by software containing harmful programs, without their users' knowledge



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### **Computing and Ethics**



How beneficial/harmful are these?

Surveillance system



Credit card reader

DNA Testing system





Body scanner

## **Computing and Ethics**



What are some unethical uses of computers?

Is downloading software or files, like movies and games, unethical?

Do you think it is a good idea to have surveillance cameras in public places? Why?



# ALGORITHMIC BIAS

What do you think this means?

Watch the video. What examples of algorithmic bias are mentioned?

https://www.youtube.com/watch?v=bWOUw8omUVg

### **TED Talk 2**



How I'm fighting bias in algorithms – Joy Buolamwini https://www.youtube.com/watch?v=UG X 7g63rY



What solutions does the speaker suggest?

Joy Buolamwini: How I'm fighting bias in algorithms

TED · Joy Buolamwini · Mar 9, 2017

#### **TED Talk 2**



#### Additional reading:

Facial Recognition Technology Is Both Biased and Understudied by Rod McCullom

https://undark.org/article/facial-recognition-technology-biased-understudied/

### Let's reflect!



- Do you agree that the examples shown in the video constitute instances of algorithmic bias?
- Which of the examples provided you think is the worst/most unfair?
- Do you think biometric authentication techniques used by law enforcement are reliable?





