

# THE IMPORTANCE OF ETHICS IN AI

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# RECENT DEVELOPMENTS

Recent developments in Artificial Intelligence have alarmed the public in many countries around the world. This is because robots, chatbots, avatars and other intelligent agents are not only being used as tools to assist in everyday life, they are now created to be autonomous agents that are very “human-like”.



# ARE AI's ETHICAL?

Are morals, ethics and law taken into consideration when developing AIs? Should this be allowed?

Are the use and development and AIs being regulated?

Since AIs are able to make decisions, can it be held accountable for its actions?

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“AI reasoning should be able to take into account societal values, moral and ethical considerations; weigh the respective priorities of values held by different stakeholders in various multicultural contexts; explain its reasoning; and guarantee transparency.”

VIRGINIA DIGNUM  
COMPUTER SCIENCE RESEARCHER

# ETHICAL CONCERNS IN AI

Harm to physical integrity

Lack of access to public services

Lack of privacy

Lack of transparency

Security problems

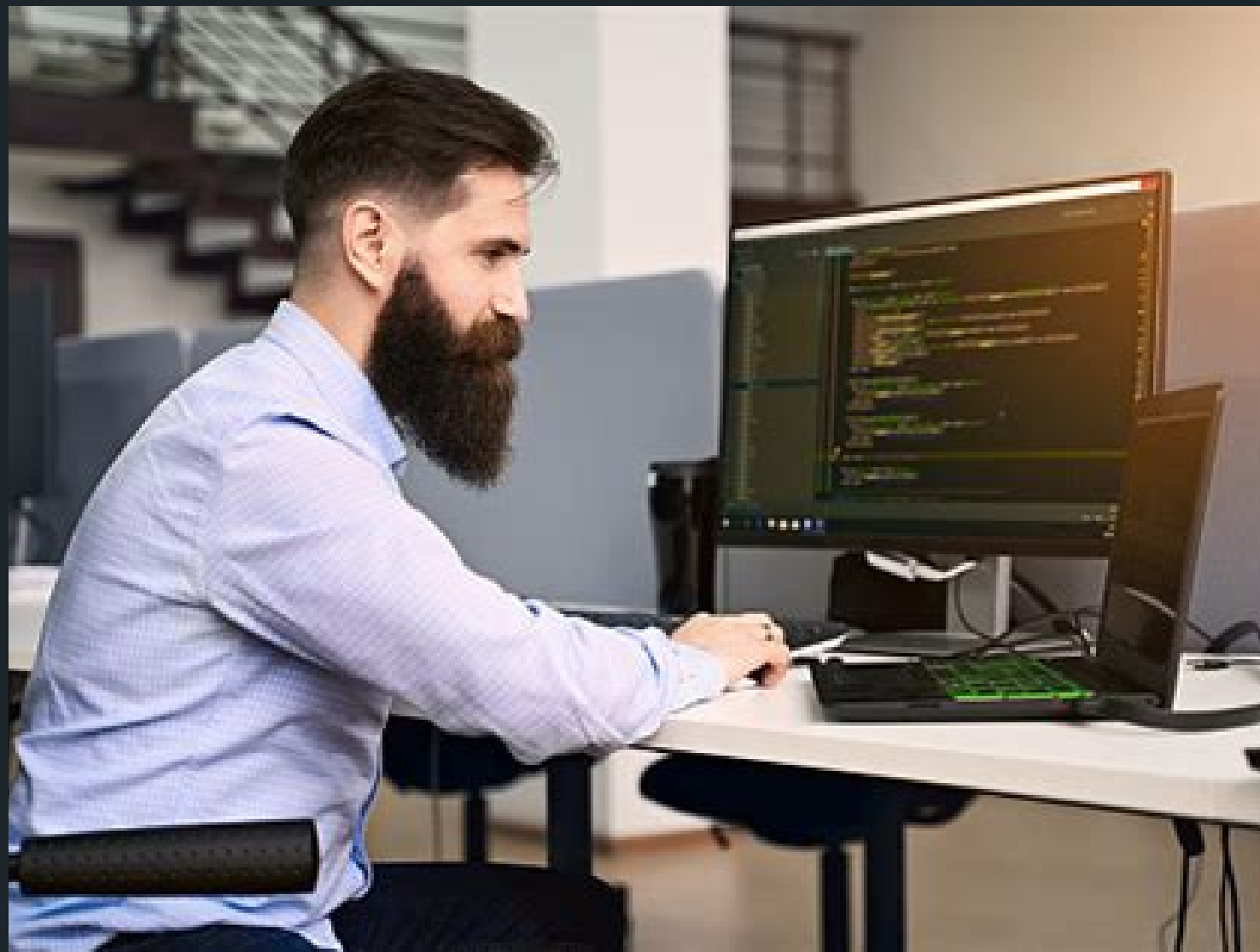
Lack of quality data

Lack of informed consent

Bias and discrimination

Unfairness

# ETHICAL DEVELOPMENT



It is the responsibility of the developers of AIs to incorporate moral, legal and ethical values into the systems they develop. It is their theories, methods, and eventually algorithms that should instill these values at every stage of the AI development process.



# CRITICAL REVIEW (VIDEO 1)

The news item being analyzed concerns the new technology being introduced by JetBlue Airlines which uses facial recognition to allow hassle-free flight boarding.

This technology requires passenger biometric information instead of asking the passenger to present their ticket or boarding pass.

# CRITICAL REVIEW (VIDEO 1)

The video explained that the face is compared to the person's passport photo.

By its nature, training an AI Model to recognize faces requires large amounts of facial data for it to be trained properly.

*Fun question: What happens if identical twins want to board their flight with their face? Is the AI guaranteed to tell them apart?*



# CRITICAL REVIEW (VIDEO 1)

The report stated that the passengers seem unconcerned with the facial recognition being a privacy concern. A factor being how convenient it made the experience of boarding planes.

The Face Recognition system presents a big ethical issue. **So big you might have missed the other AI Technology mentioned in the video:**

- Bag scanners that create a 3D Model of a passenger's luggage
- Fingerprint scanners that are contactless

# CRITICAL REVIEW (VIDEO 1)

## Pros:

- Persons such as the elderly will have an easier time boarding flights
- You can opt out of the facial recognition program if you have concerns.
  - The countries of Great Britain have the General Data Protection Regulation (GDPR) that states if a person requests for their personal data to be removed they must do so.

## Cons:

- Do users give consent before they are added to the system?  
Apparently not (Hankoff, 2019).

# CRITICAL REVIEW (VIDEO 1)

The issues of transparency, accountability, lawful surveillance, fairness and consent need to be handled in order for the JetBlue system to be ethical.

# CRITICAL REVIEW (VIDEO 2)

In the report of China's implementation of AI in schools, we witness possible breaches in ethics.

For example: use of tracking devices in students' uniforms.



# CRITICAL REVIEW (VIDEO 2)

Additional research on this topic shows that while students are tracked at school in order to boost attendance, nothing is said about whether or not students are tracked outside of school hours while wearing uniforms.

This can be a direct breach of privacy which is unethical. Ethics in AI is very important, as it should prevent this kind of personal breach.

# CRITICAL REVIEW (VIDEO 2)

A glimpse at a dashboard of the student monitoring system

云上智慧校园门禁系统

主界面 系统设置 记录查询 全屏显示 关于 用户退出

WSJ

2019年05月15日 星期三 16:08:31

2019年05月15日 星期三 6



	时间	姓名	进出类型	人员类型	性别	年级	
276	2019-05-15 16:01:01	蒋家浩	进校	走读生	男	八年级	八年级(1)班
275	2019-05-15 16:00:59	丰田	进校	走读生	男	八年级	八年级(1)班
274	2019-05-15 16:00:57	田阳阳	进校	走读生	女	八年级	八年级(1)班
273	2019-05-15 16:00:55	熊佳骏	签到	走读生	男	八年级	八年级(1)班
272	2019-05-15 16:00:55	张焱	进校	走读生	女	八年级	八年级(1)班
		王露	进校	走读生	女	八年级	八年级(1)班

# CRITICAL REVIEW (VIDEO 2)

Also highlighted in this video, the reporter stated that parents of young children using focus monitoring headband were unaware of what else the data collected was being used for.

The handling of sensitive information is an ethical concern in every aspect of life, including in the field of AI. Ethical consideration has to be taken to protect the child.

# CRITICAL REVIEW (VIDEO 2)

**Fun Fact! People in China has a citizen score**

The score changes with a persons daily interactions and is lowered by actions such as: driving badly, buying too many video games, and stealing (Ma, 2021). Monitoring is mainly through surveillance cameras. Persons with 'low' scores are punished with restrictions such as slower internet speed and flight restrictions

*Remember how the video says that you can make purchases with your face? Think carefully about what you buy, you are being watched :-)*



# CRITICAL REVIEW (VIDEO 2)

**Did the attention devices really work?**

Wall Street Journal Report interviewed Theodore Zanto, a neuroscientist who stated "this is a new technology with still very little research behind it". Despite the chances for false readings teachers said the headbands were more discipline, study harder and attain higher scores.

**So the answer to the question: Yes...**

# **CRITICAL REVIEW (VIDEO 2)**

**However...**

The report also stated that students find it as a new type of pressure since some parents would punish them if they had a score lower than the class average on assignments and tests.

Knowing China's already strict culture of child education. Do the children need to more pressure to perform well in school?

**Think of the Children!**

# **So why are ethics important again?**

Artificial Intelligence is powerful and quite simply:

**We cannot run the risk of unleashing  
unethical tools**

Artificial Intelligence is lacking such a [moral] compass. As a matter of fact, it's lacking any kind of compass. Artificial Intelligence can only separate right from wrong based on data that has the label "right" and the label "wrong" attached to it (Hoes, 2019).

# RECOMMENDATIONS

- **Have Developers well trained in ethics:** An AI is only as Ethical as it's creator.
- **Do no create an AI that has the intention of harming humans:** Bulding an AI with malicious intent should not be done.
- **Check the outcome of the AI's work in practice:** In theory even if the AI is built with good intentions, what it does in in real world situations should be assessed and corrected.



# END OF PRESENTATION

STAY SAFE - MASK UP ONLINE AND OFFLINE



# REFERENCES

**"The future of flying: Facial recognition coming to US airports your face your boarding pass"**

retrieved from <https://www.youtube.com/watch?v=J8Ty9arV7ho>

**"CHINA...This is Crazy. This is what they're trying to do to us over here. Secretly they have been doing it to us through the tv's phones,..."**

retrieved from: <https://facebook.com/evangelistshanajoseph/videos/3012999755403465>

Hankoff, Nick. (2019). **'Did I Consent?': New Airport Face Scanners Deployed Without Oversight.**

retrieved from: <https://www.theadvocates.org/2019/04/did-i-consent-new-airport-face-scanners-deployed-without-oversight/>

Ma, Alexandra. Canales, Katie. (2021). **China's 'social credit' system ranks citizens and punishes them with throttled internet speeds and flight bans if the Communist Party deems them untrustworthy.** retrieved from: <https://www.businessinsider.com/china-social-credit-system-punishments-and-rewards-explained-2018-4?op=1>

# REFERENCES

Hoes, Ferry. (2019). "**The Importance of Ethics in Artificial Intelligence (Or any other form of technology for that matter)**" retrieved from <https://towardsdatascience.com/the-importance-of-ethics-in-artificial-intelligence-16af073dedf8>