

Ethics of Pattern Recognition

Good, bad, maybe both?

Applications

(Not even close to being exhaustive)

- **Computer aided health diagnosis**
- Face recognition
- Fraud detection
- Speech recognition
- Hate behavior detection on social media
- ...

Pros (medical application)

- Cheap and fast diagnosis, much cheaper than doctors
- Reasonably accurate
- Can work as powerful recommendation system for doctors, rather than replacing their diagnosis
 - Might help catching rare diseases

Cons (medical application)

- Lack of traceability and culpability
 - How to explain a mistake made by the system?
- Research doesn't always consider bias in datasets
 - Diagnoses can be heavily influenced by what the doctor was already suspecting, which exams were requested, etc.
- Recommendation systems might induce cognitive bias on doctors
 - *Anchoring and priming* effects

ADEME - The Restoration Gamble (4)

- **NOT** scenario 1: nothing in this technology suggests production at low levels of output;
- **NOT** scenario 2: no indication of political reorganization;
- **NOT** scenario 3: the potential of making technology “greener” is not obvious;
- We are left with **scenario 4**.



Really makes you think 🤔🤔

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