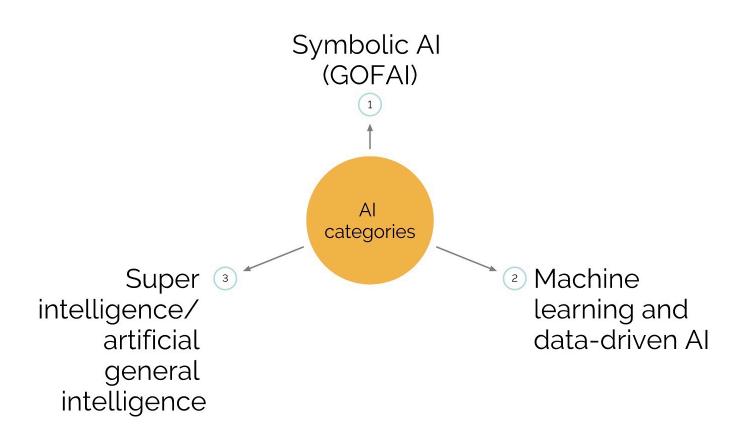


A primer on artificial intelligence for CSOs



European Center for Not-for-Profit Law

AI categories



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Symbolic AI

 Encoding knowledge into sets of rules that can be executed by the machine.

Example: If X = Y and Y= Z than X = Z

 Improvements in performance are achieved by humans adjusting/adding to the knowledge which is coded directly into the algorithm.



Artificial general intelligence (AGI)

- Does not yet (ever?) exist!
- Algorithms that can exhibit "human-like" (or super human!) intelligence in a wide range of contexts and problem spaces.
- Singularity: the moment where AI becomes sufficiently intelligent and autonomous to generate even more intelligent systems, breaking free from human control.



Machine learning/ data-driven AI

Input -> Algorithm -> Output

Range of techniques that automate the learning process ("training") of algorithms through data. ML algorithms usually find their own ways of indentifying patterns, and apply what they learn to make statements about data ("predictions" or decisions).

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BLACK ERROR LABELLED DATAMINING DATA DATA BOX LEARNING SUPERVISED UNSUPERVISED



Common definitions

Algorithm

A set of rules defining how to perform a task or solve a problem. In the context of AI, this usually refers to computer code defining how to process data.

Application programme interface (API)

APIs are the access points that apps and third parties can use to engage with larger platforms and systems, like mobile phones or social media websites.

Big data

Broader than AI, big data refers to sets of data that are so large and complex that they cannot be effectively stored or processed with traditional methods.

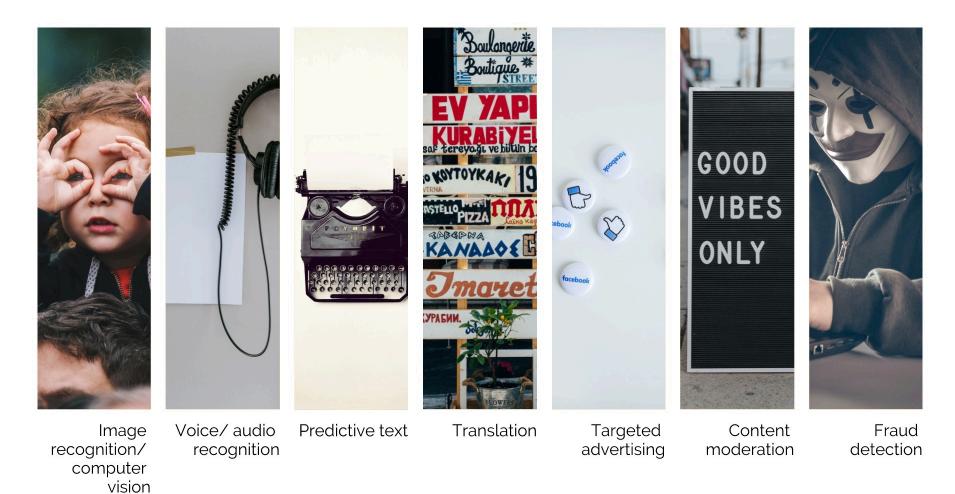
Data mining

Automated process for extracting data and identifying patterns and anomalies.

Labelled data

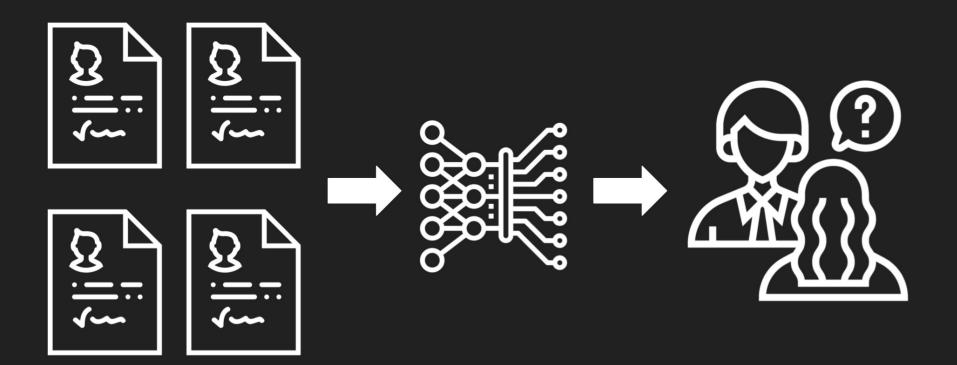
Data that is accompanied with inforation about the data.





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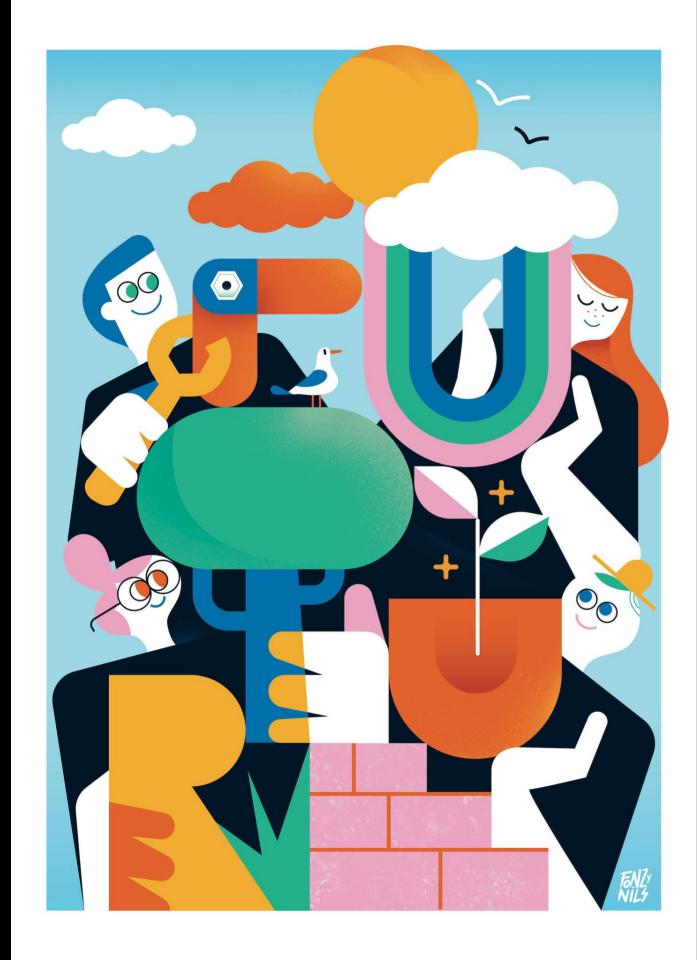




Transparency Stakeholder Engagement Accountability

Marlena Wisniak, ECNL

Image credit: Fonzy Nils, https://thegreats.co/artworks/future



Corporate Power

- AI design, development,
 deployment
- \circ $\$ Privatization of social services
- \circ Global North
- \circ Software
- Hardware & infrastructure
- $\circ~$ Funding/ VCs
- \circ Big Data



Lack of Transparency

- X Design & development: input algorithm output
- X Deployment
- X Governance mechanisms, due diligence, risk management strategies



Exclusion of Affected Communities

- \circ Insufficient technical skills
- \circ Under-resourced
- \circ Techno-solutionism
- Corporate capture and "human rights washing"
- Multi-stakeholder participation in policymaking



Image credit: Ivonne Navarro, https://thegreats.co/artworks/solidarity-banner

Thank you!

marlena@ecnl.org

twitter @marle_wi

Image credit: Fonzy Nils, https://thegreats.co/artworks/future

