

The Dilemma of AI education: Technology meets Educations meets Ethics



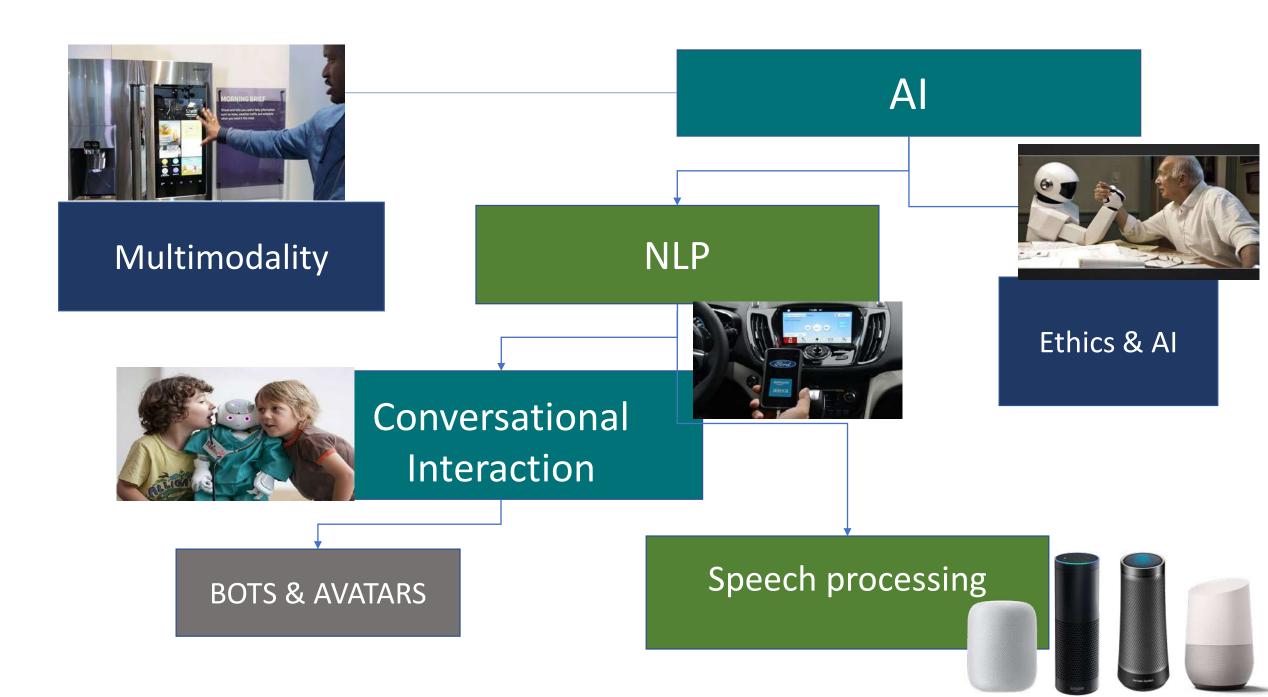
//Dr. Nava Shaked

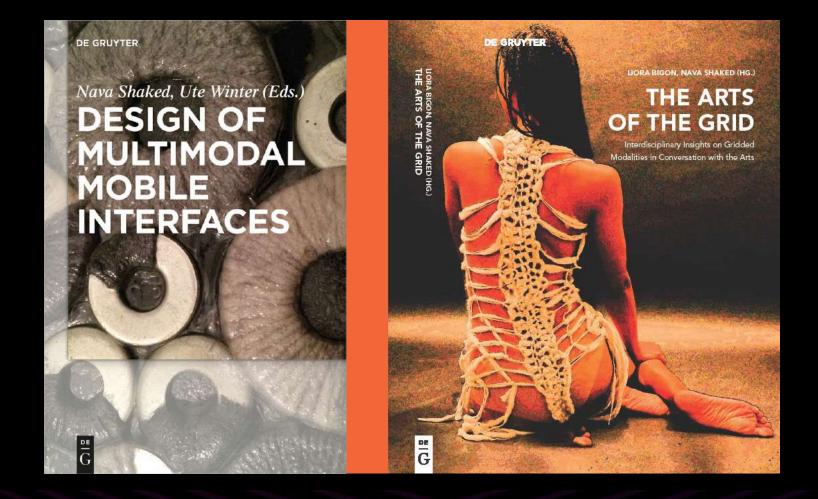


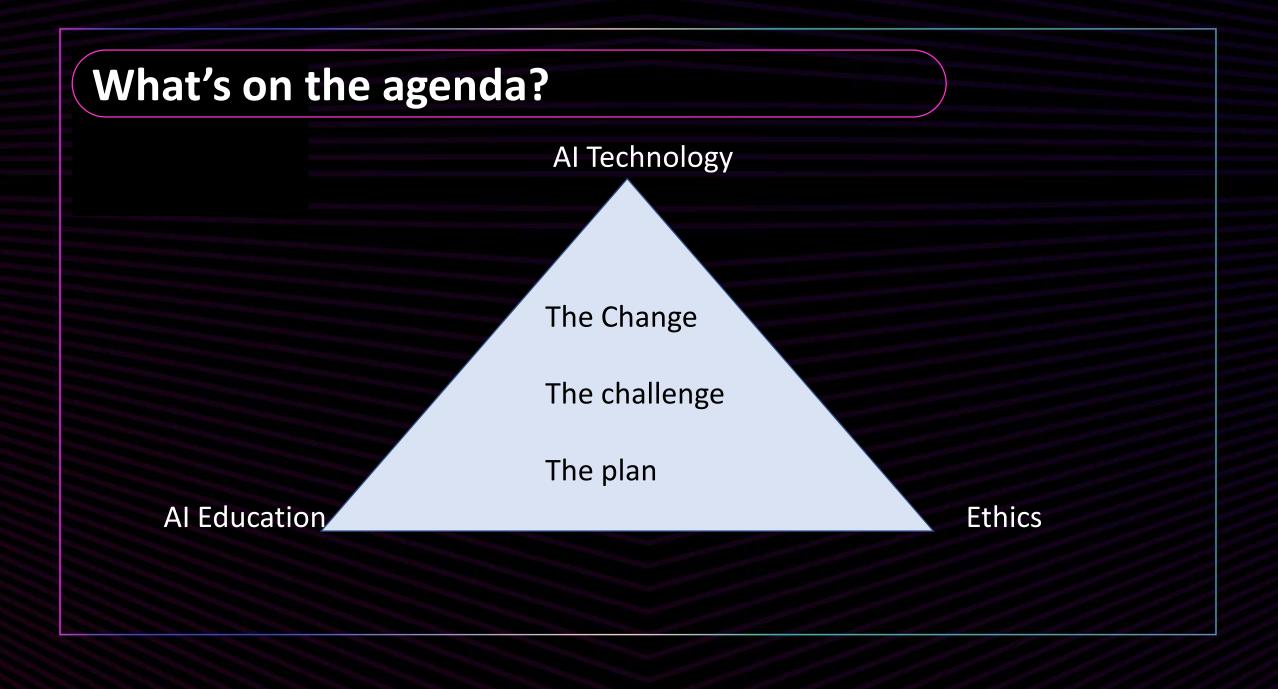
Dr. Shaked - Bio

- Ph.D. in Computational Linguistics in NLP from CUNY New York
- Head of MDS -Multidisciplinary Studies & CS Faculty member
- ✓ R&D in speech processing in Bell Labs, IBM & more
- Vast Industry experience: Speech platforms, VUI Dialog design, Call Center technologies and Multimodality
- Consulting for startups and enterprises
- ✓ My favorite: Avatars & Bots









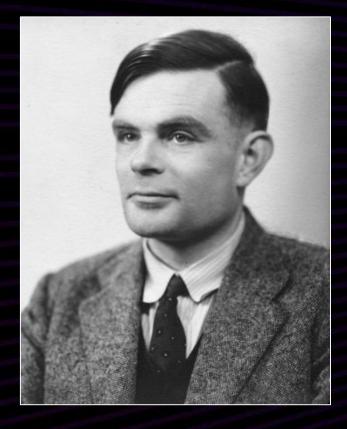
AI Technologies





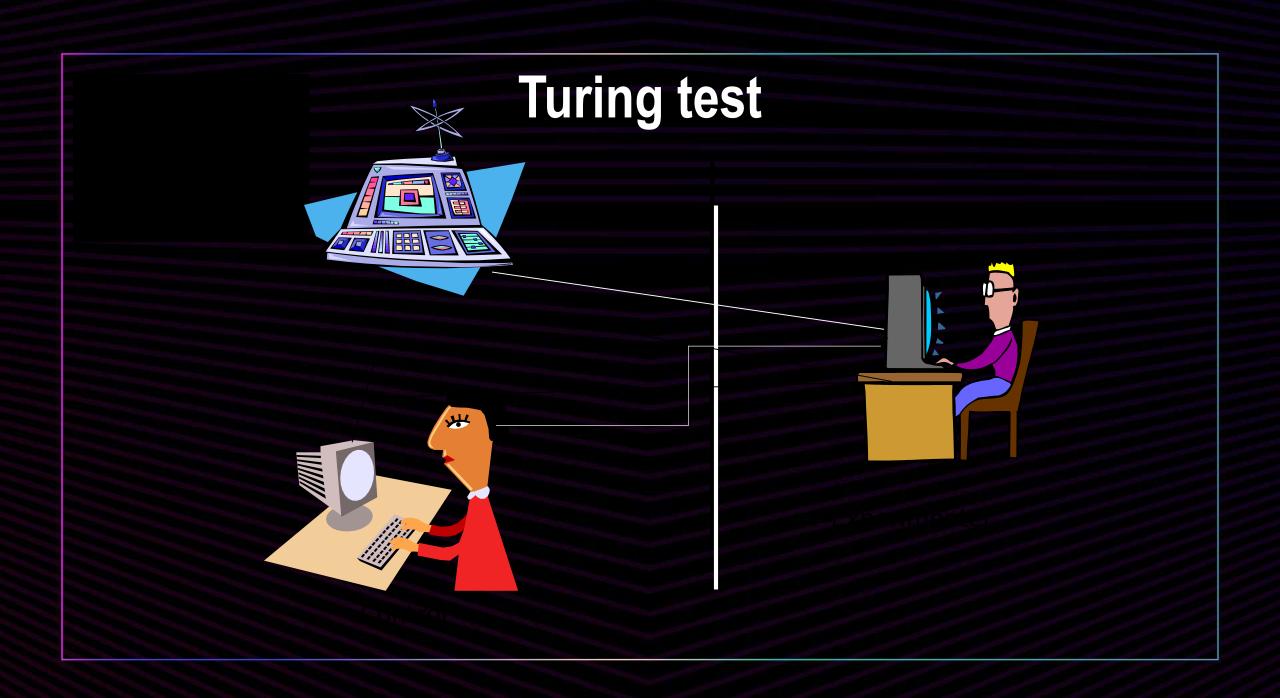
rein.

In the 1950's Turing predicted that computers will be smarter then humans by 2000



2005- Ray Kurzweil in his book "The Singularity is near" Predicted overloads by 2045

Turing – the father of Computing and AI



AI technologies and implementations are here!

We are still looking for the right format ..

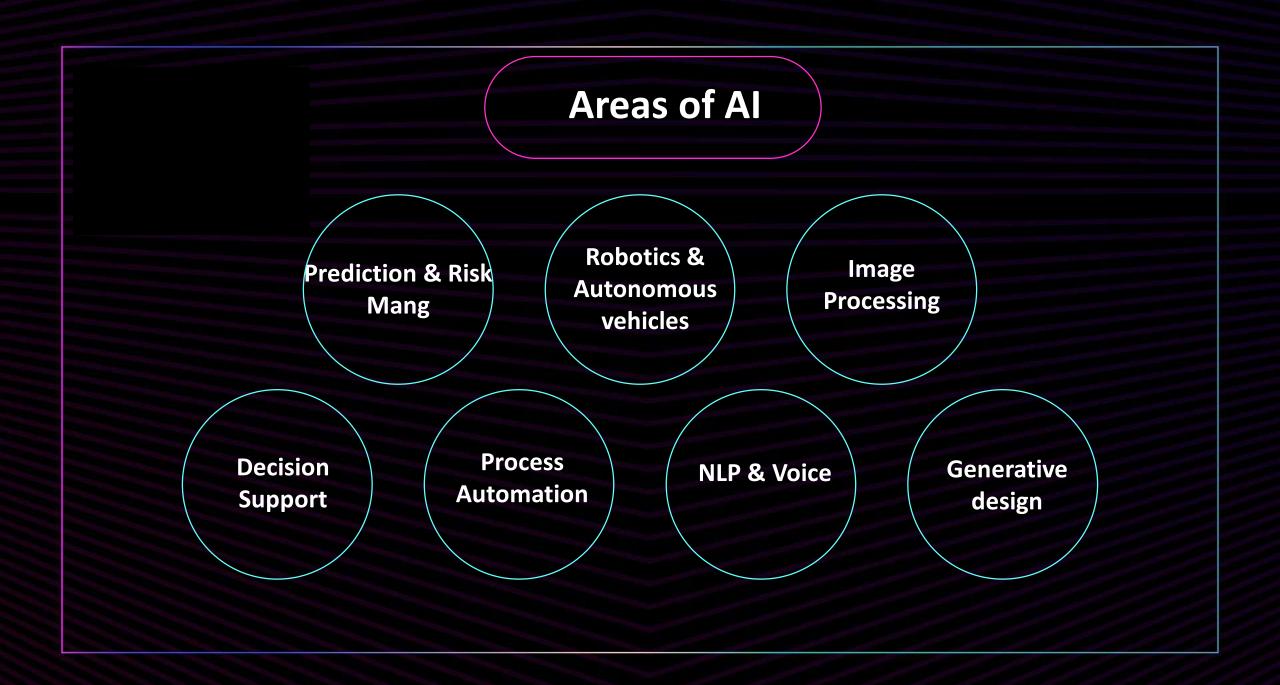


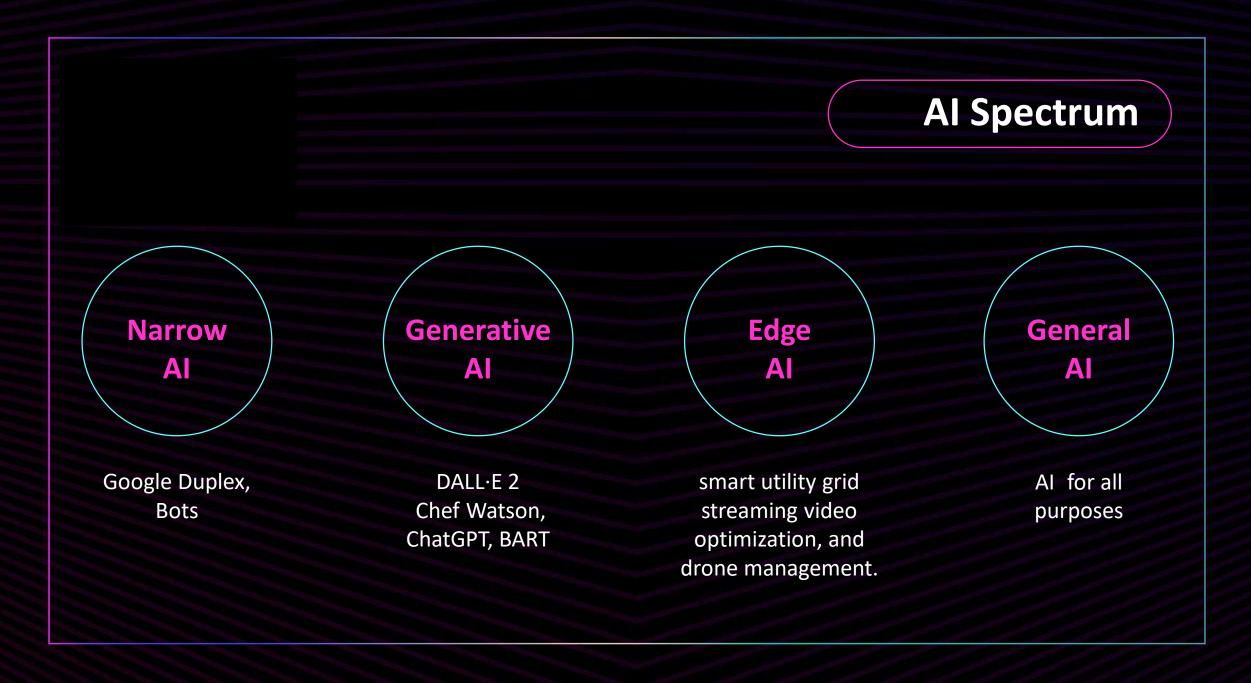
Why?

Industry vs. academy

Agenda

Change rate





Why now?

1. Technology is mature, fast and relatively reliable

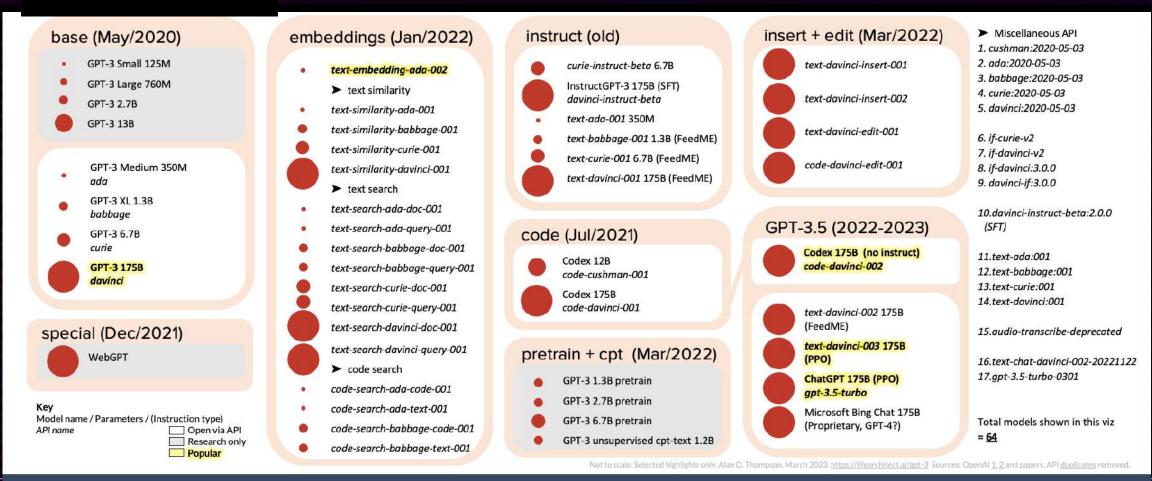
2. Simple UI, free and short learning curve

3. Generation Z & naïve users are willing to adapt

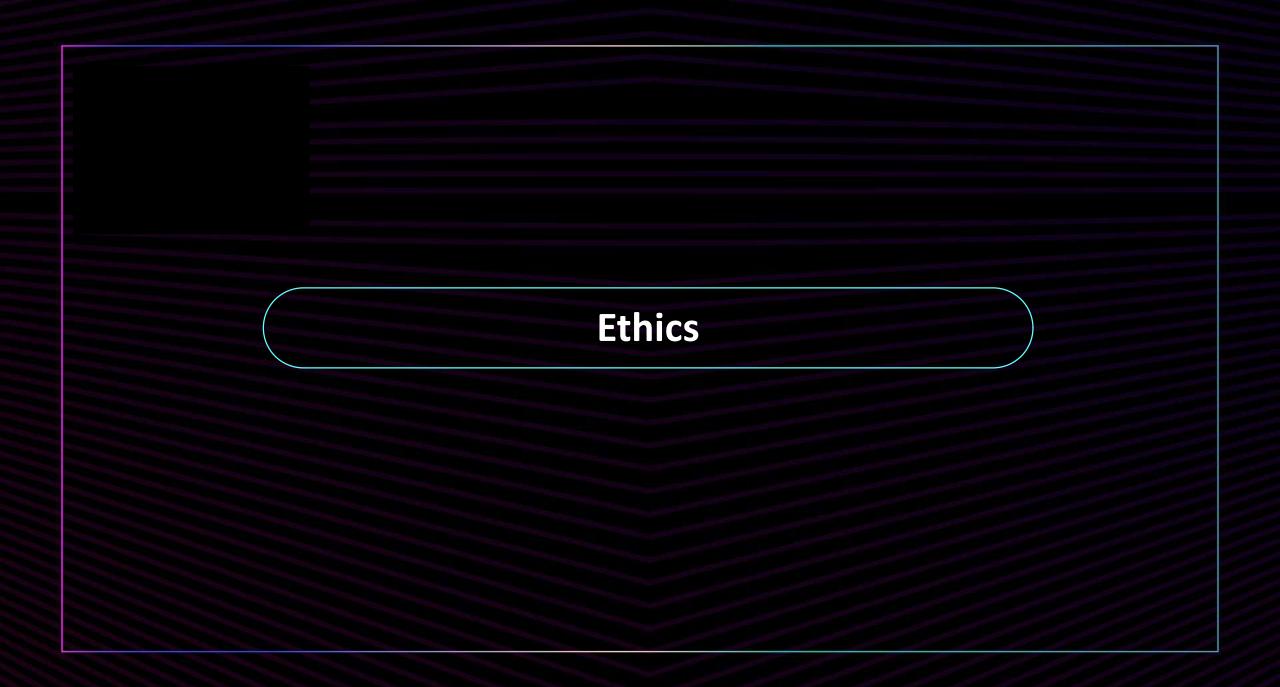
4. Google search engine is not enough now

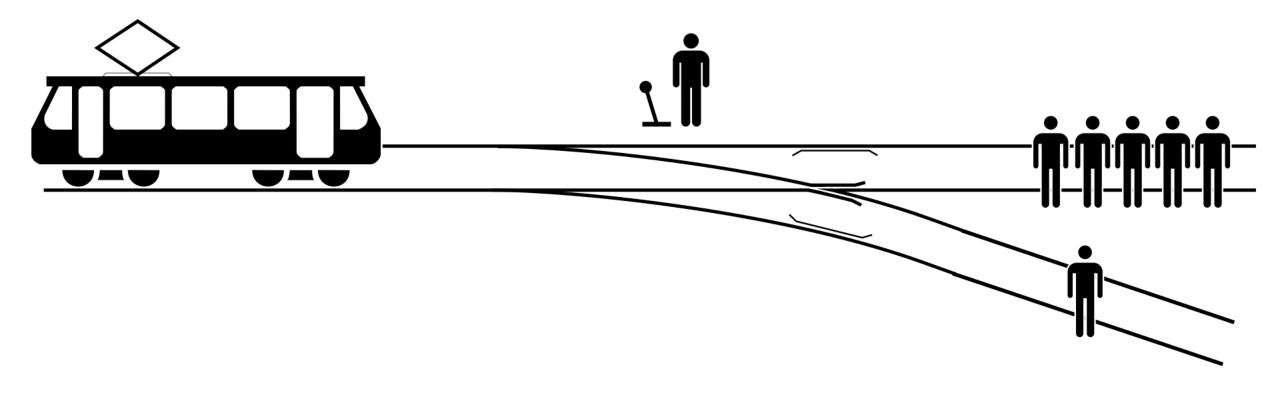


https://theresanaiforthat.com/



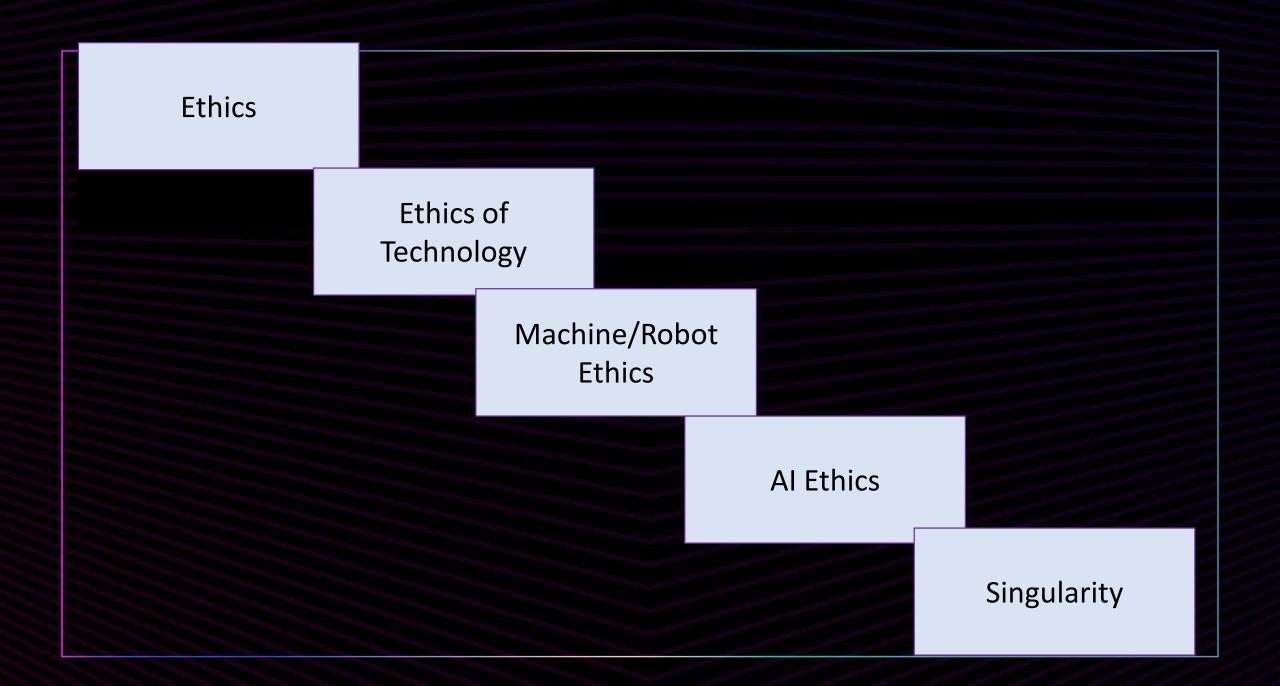
LifeArchitect.ai/gpt-3





By Jonas Kubilius - Own work, CCO, https://commons.wikimedia.org/w/index.php?curid=39368927 Ethics or moral philosophy is a branch of philosophy that "involves systematizing, defending, and recommending concepts of right and wrong behavior".

• Ethics defines concepts such as good and evil, right and wrong, virtue and vice, justice and crime.



The GREY Area.....

Lack of transparency **Fake News Bias and discrimination** Use in "new" situation 3rd party usage **Targeting & segmentation**



Ethics

- Biases in Al
- Robot Rights
- Threats to Human dignity /life/work
- Weaponization of AI
- Singularity

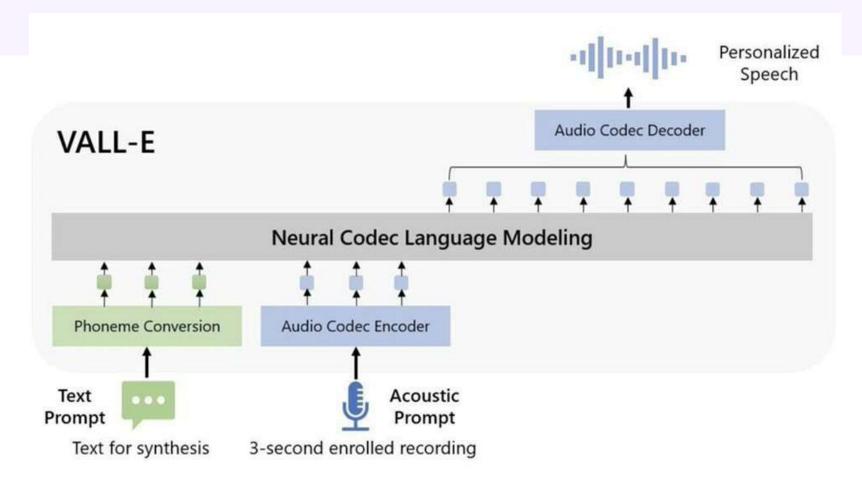
Regulation

- Privacy (GDPR)
- Responsibility
- Liability
- Explianability
- IP & Legal use
- Singularity

The 3 Laws of Robotics (Asimev)

I. A robot may not injure a human being II. A robot must obey the orders given it by human beings except where such orders would conflict with the First Law. III. A robot must protect its own existence as long as such protection does not conflict with the First or Second Laws

Microsoft's new AI can simulate anyone's voice with 3 seconds of audio (Jan 2023)



For VALL-E to generate a good result, the voice in the three-second sample must closely match a voice in the training data.



Need someone to talk to?





-4 HI -4 HI

הג'ימנוייד של בתו של הירושי



אין לי יותר בלעדיות על הזהות שלי. אני חולק" אותה עם הרובוט"

Weaponization of artificial intelligence



The Al Act



First law on AI by a major regulator anywhere.

1. Unacceptable risk, such as government-run social scoring of the type used in China, are banned.

2. High-risk applications, such as a CV-scanning tool that ranks job applicants, are subject to specific legal requirements.

3. Not explicitly banned or listed left unregulated.



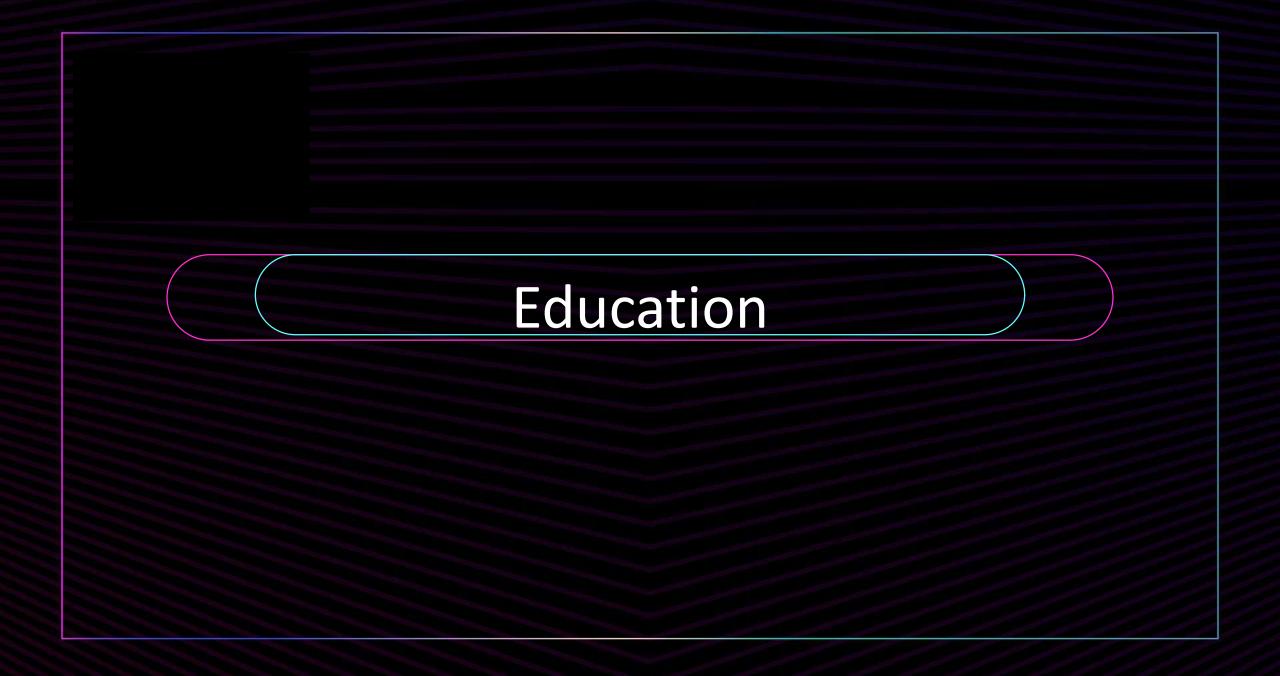
American Al Initiative

Academic initiatives



 ✓ EU's General Data Protection Regulation (GDPR) in 2018,
 ✓ EU AI Act
 ✓ OECD AI Policy Observatory.







Plymouth



AIBO



Jibo

Social Robots





Misty II



Pepper

Gerijoy

Who will regulate AI in our institution?

What is the responsibility of students & teachers?
Device need of "Deviciency Octh"?

- Do we need a "Physician's Oath"?
- Is there a project you will not do?

We already started....

✓ We have established an ethical code for every faculty in HIT –academic freedom





Liability & responsibility



Is it OK to use...? Student should inform use of AI tools? Monitoring AI usage?

Setting Boarders & Rules

Set of rules & ethical code for using AI in our academic environment
Discuss the opportunity and minimize fear
Raise Awareness and added values for lecturers (data, predication, personalization)

The Old Approach Vs The New approach

- Change the way we consume data
- The new "knowledge"
- The power of SKILLS
- Use AI creatively
- Critical thinking and research



//We need to discuss to disruption, the
opportunity and the journey.....
To better understand how we could
leverage AI for new age education !

Thanks

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