The impact of cutting edge AI technologies on our educational systems

Dr. Nava Shaked

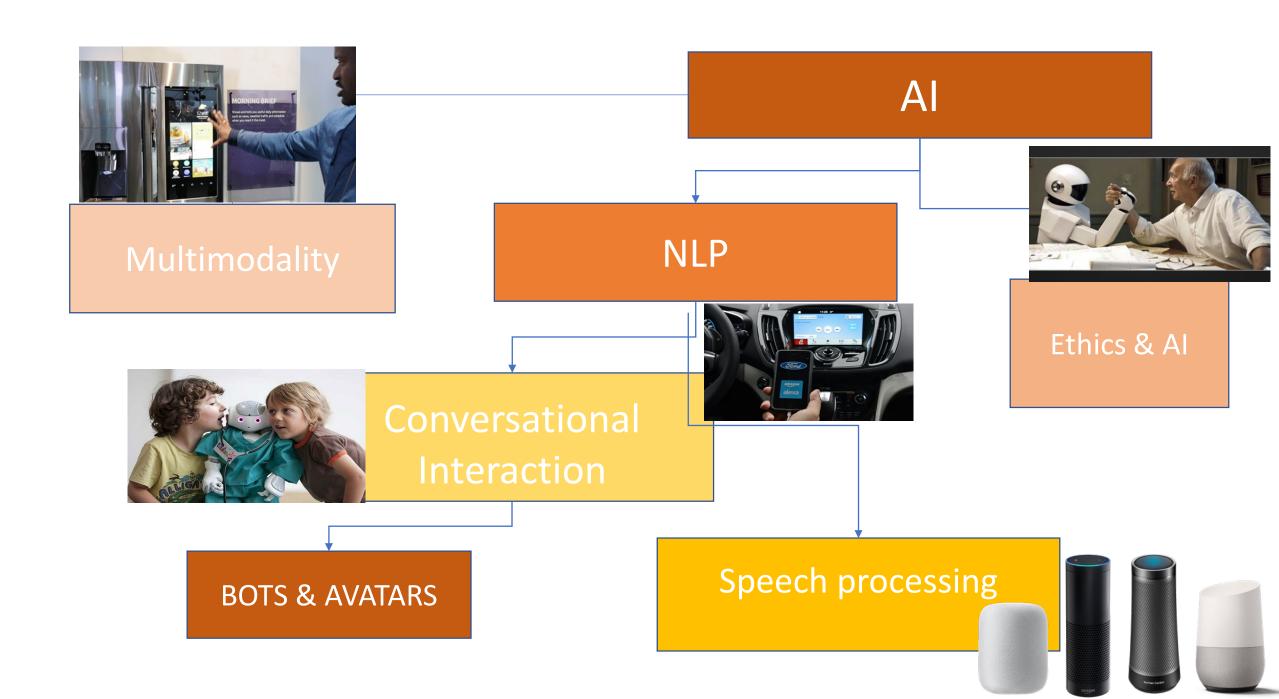
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Dr. Shaked - Bio

- 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





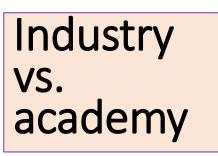




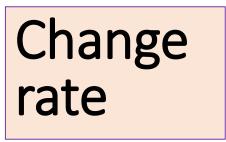
Diff Approaches

Many Disciplines

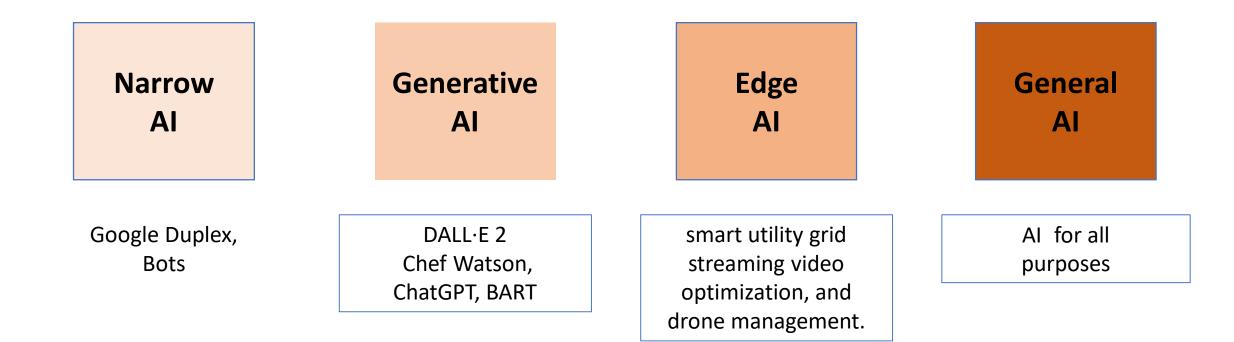




Agenda



Al Spectrum



AI influencing higher education

AI technologies and implementations are here

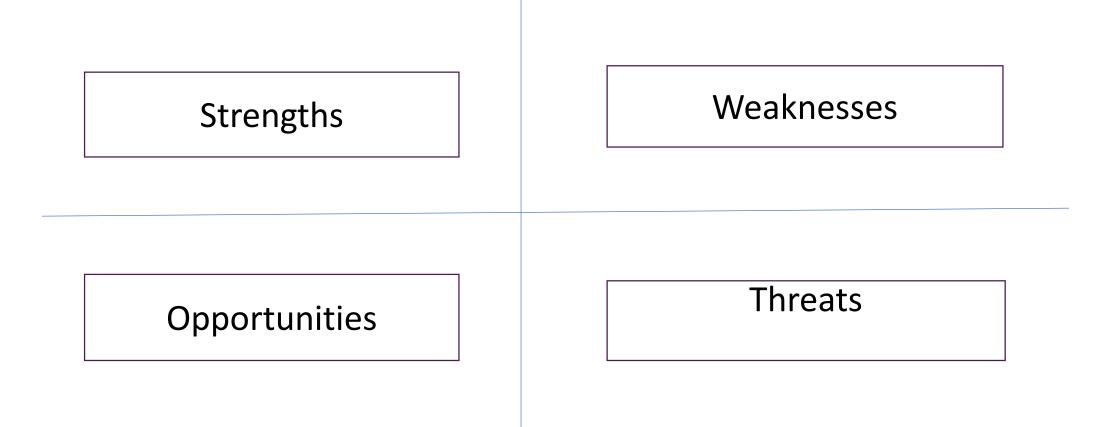
We are still looking for the right format...

Digital Natives Vs. Digital Immigrants

Where should we focus first?







The Strengths:

- Personalized learning
- Intelligent tutoring systems
- Automated administrative tasks
- Virtual assistants and chatbots
- Enabling data analysis and predictive analytics
- Fostering research and innovation
- Facilitated collaboration among researchers



The weaknesses: Al challenges higher education

- Ethical concerns & code
- Potential lack of human interaction
- Biases and inequalities in AI algorithms
- Changing the rules of teaching
- Potential job displacement
- A need for significant investments
- Maintenance & learning curve



Threats:

- Massive Open Online Courses (MOOCs) have gained popularity,
- What is the role of the lecturer is traditional classroom-based education dead?
- Do we need academic degree education? Or skilling is enough?
- What is the nature of the new educator?

The Opportunity: 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

Accessibility



Grammarly

the digital writing assistant that uses AI to check for grammar, spelling, and punctuation errors ...

Otter.ai

Otter AI helps students record and transcribe lectures and their voices simultaneously, seamless integration with apps like Zoom, Google Meet, and Microsoft Teams.

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Edmodo uses Al to personalize learning experiences, provide realtime feedback, and offer insights into student performance to assist in the learning process



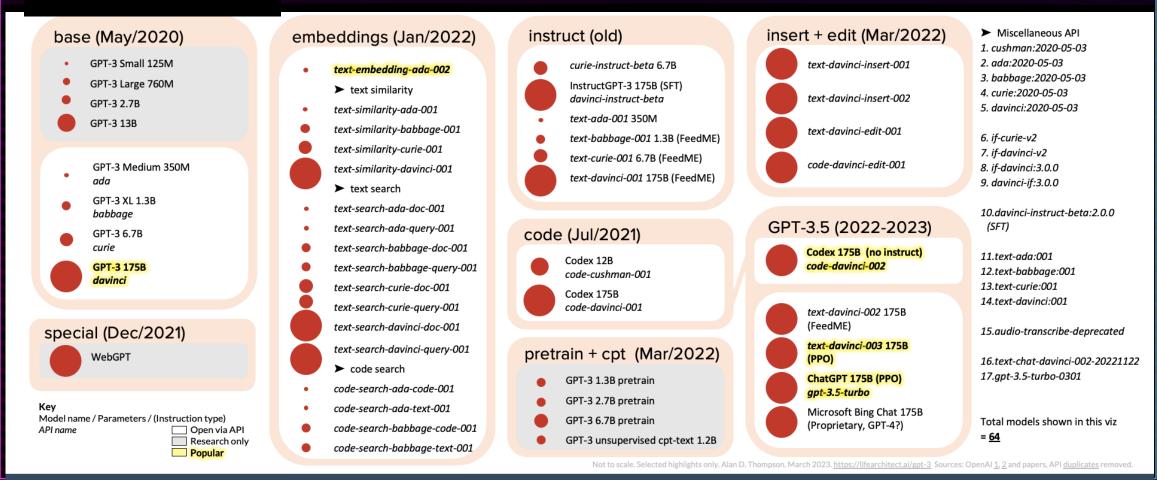
Cognii - Virtual learning assistant tool that provides one on one tutoring and customized personalization and guidance for each student to address their respective needs.

Relying on natural language processing conversational technology which helps in boosting critical thinking skills in students.



Nearpod - interactive learning platform that utilizes AI to create engaging and immersive lessons. offers a library of ready-to-use lessons and allows educators to customize their own interactive presentations, quizzes, and virtual reality experiences, fostering active student participation and feedback.

https://theresanaiforthat.com/



S LifeArchitect.ai/gpt-3

What would it mean for you to deploy AI tools in your institution?

Do you already have a plane?

What will be most efficient to start with?

Teachers/Researchers education?

Management & Administration?





Thanks

shakedn@hit.ac.il