





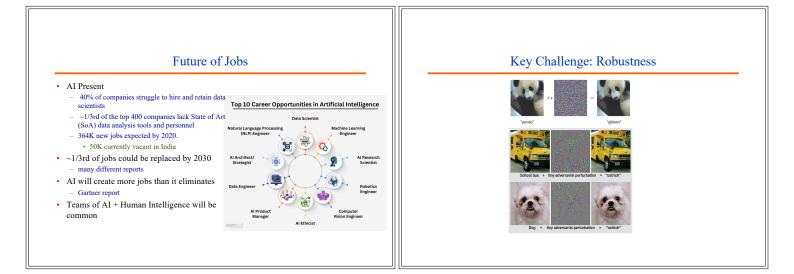
Conscious killer robots to

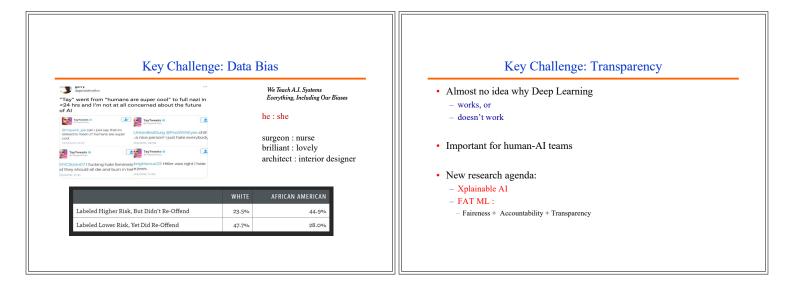
Elon Musk is wrong. The Al singularity won't kill us all

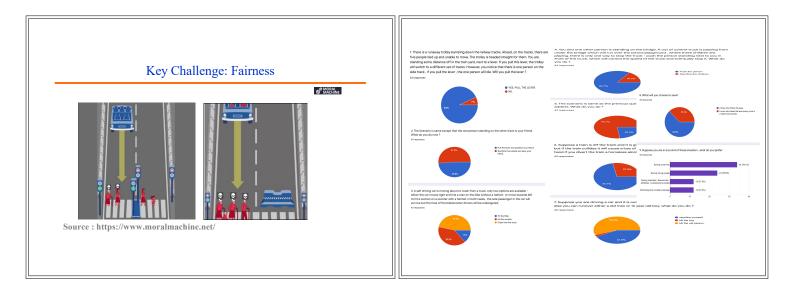
Elon Musk has stirred up fear, yet again, over the threat of killer Al. But he's missing the point completely, argues professor Toby Walsh

And don't just take my word for it. A recent survey of 50 Nobel Laureates ranked the climate, population rise, nuclear war, disease, selfishness, ignorance, terrorism, fundamentalism, and Trump as bigger threats to humanity than AI.

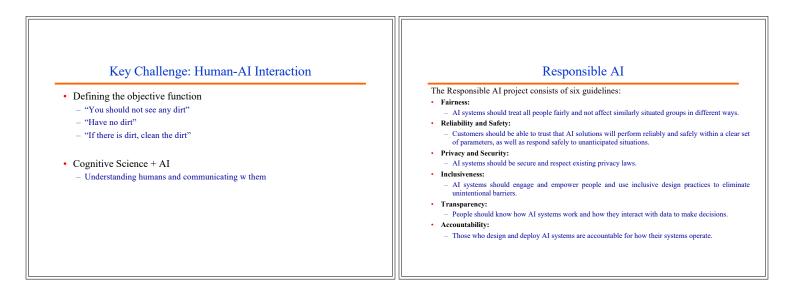
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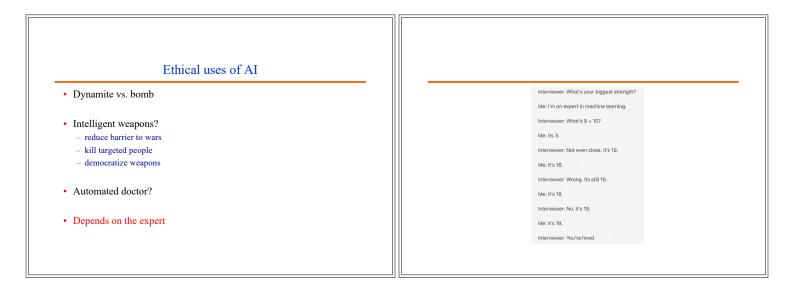


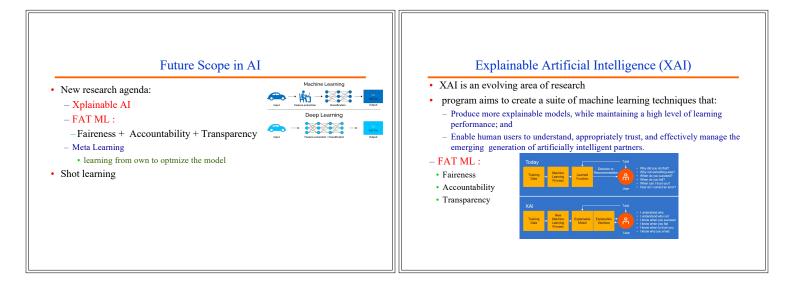




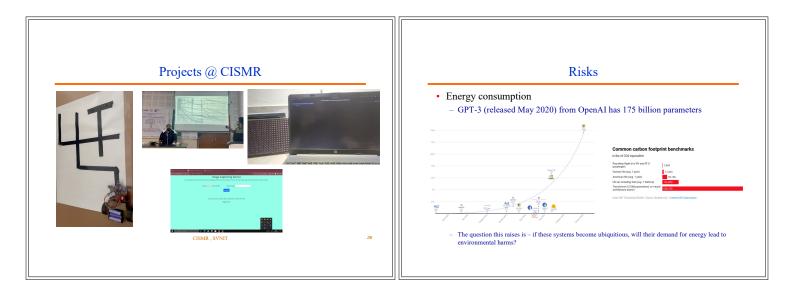


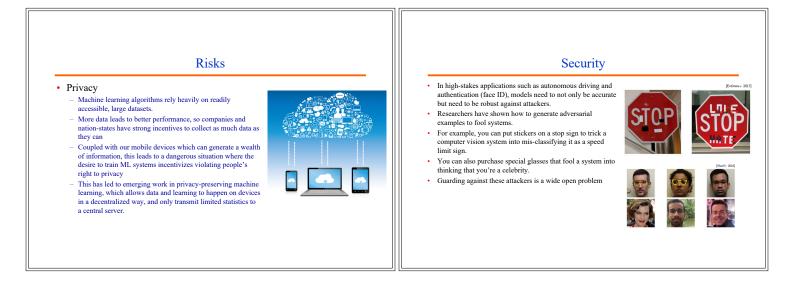


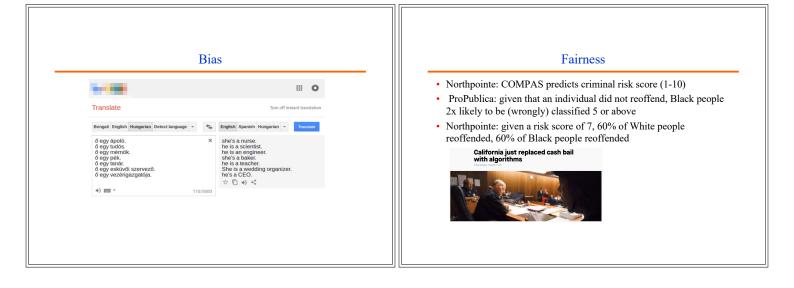












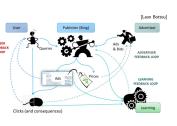
Feedback loops in learning

Relatedly, AI systems are deployed in a dynamic environment in which the system makes predictions (search results, recommendations, ads), users take action (e.g., clicks).

These actions are recorded as data used to retrain HEEDER the system, often to reinforce these actions.

This introduces a feedback which usually amplifies or polarizes the initial signal, leading to unstable behavior.

An open research challenge is to design learning algorithms whose dynamics are stable.



Generating fake content



https://www.youtube.com/watch?v=l82PxsKHxYc

Prospects and risks of AI

- · AI technology is an amplifier
- Can reduce accessibility barriers and improve the lives of the less fortunate
- · Can amplify bias, security risks, centralize power
- Can build it \neq should build it
- Figuring out the right way to reap the benefits and mitigate the risks will also require having a deep technical understanding, especially to develop novel solutions, which is what this course seeks to provide.

Future in AI

- The first generation of AI was 'descriptive analytics,' which answers the question, "What happened?"
- The second, 'diagnostic analytics,' addresses, "Why did it happen?"
- The third and current generation is 'predictive analytics,' which answers the question, "Based on what has already happened, what could happen in the future?"
- The fourth generation of AI is 'artificial intuition,' which enables computers to identify threats and opportunities without being told what to look for, just as human intuition allows us to make decisions without specifically being instructed on how to do so.





	Feedback
Have fun at what you do and do the right thing	

References

- Artificial Intelligence by Elaine Rich & Kevin Knight, Third Ed, Tata McGraw Hill
 Artificial Intelligence and Expert System by Patterson
- . (for more demos)
- Infig: Annual est betweev entit demensioning (ADI HART Sources)
 Artificial Intelligence and Expert System by Patterson
 Slides adapted from CS188 Instructor: Anca Dragan, University of California, Berkeley
 Slides adapted from CS60045 ARTIFICIAL INTELLIGENCE