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Lecture 11 - What ML / Al are good at and what they are not good at.

First A little bit about Stephie...

Things that ML / Al are doing

- 1. Facial recognition
- 2. Giving out traffic tickets
- 3. Watching neighborhoods
- 4. Travel recommendations
- 5. Product recommendations
- 6. Self driving cars (trucks)
- 7. Artificial limbs
- 8. Nerve Repairs
- 9. Finding financial fraud
- 10. Paint Colors (from Janelle Shane research)



- 11. Door Alarms
- 12. Diagnosing Cancer (Brest Cancer from Mammograms)

People are spending huge sums on ML with mixed results.

- 1. Google Waymo self driving. In it's last investment round it raised \$2.5 Billion.
- 2. Zillo house pricing model. Zillo shut down is AI based house purchase and flip unit estimating its losses at \$500 million. 2500 people bayed off.

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Things to Read:

- 1. https://spectrum.ieee.org/slight-street-sign-modifications-can-fool-machine-learning-algorithms
- 2. https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing
- 3. https://www.aclu.org/news/privacy-technology/how-artificial-intelligence-can-deepen-racial-and-economic-inequities/
- 4. https://www.lexalytics.com/lexablog/stories-ai-failure-avoid-ai-fails-2020
- 5. https://www.forbes.com/sites/lanceeliot/2019/12/08/artificial-stupidity-could-be-the-crux-to-ai-and-achieving-true-self-driving-cars/?sh=260a95e225b6
- 6. https://www.thinkautomation.com/automation-ethics/do-we-need-to-worry-about-artificial-stupidity/

Things to watch:

- 1. Whites Only: https://www.youtube.com/watch?v=WHynGQ9Vg30
- 2. Are we Automating Racism: https://youtu.be/Ok5sKLXqynQ
- 3. You are a Thing and I Love You: https://www.youtube.com/watch?v=2ZiPEOFnK1o