

Deep Learning Transparency:

The Cost of Convenience



What Are Deep Learning Algorithms?



From Wikipedia:

“Deep learning is a class of machine learning algorithms that uses multiple layers to progressively extract higher level features from the raw input.”

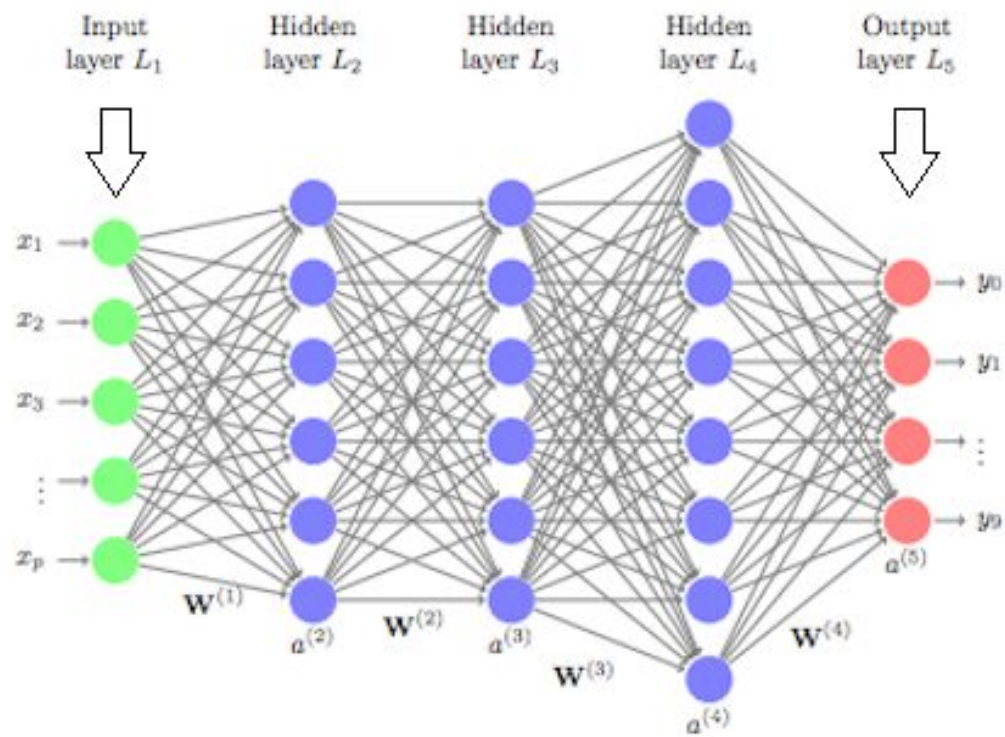
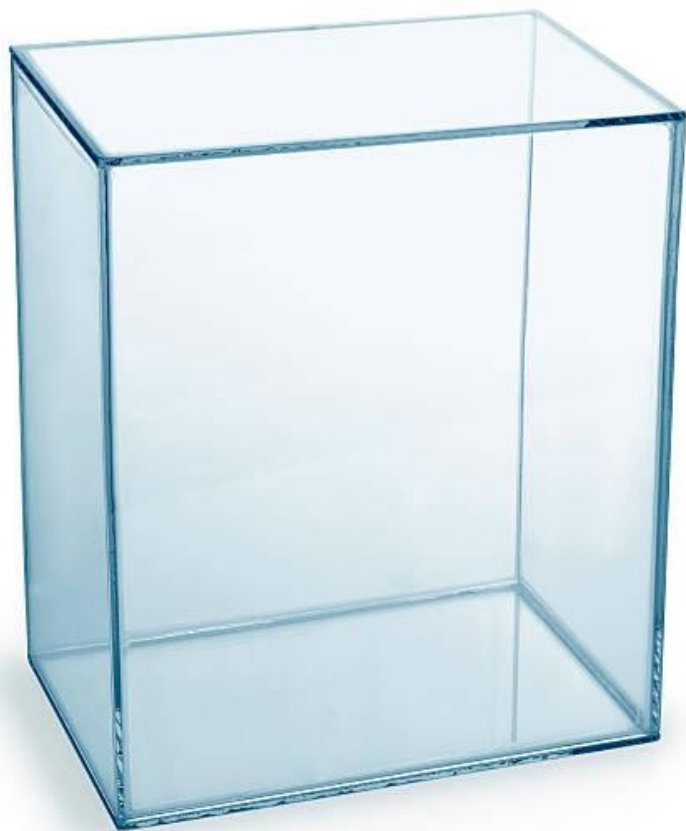


Image Source: University of Cincinnati

What Is the “Black Box”?







What is Deep Learning Used For?



EVERYTHING



Industries Utilizing Deep Learning:

- Healthcare
- Retail
- Robotics
- Self-Driving Cars
- Oil and Gas
- Cyber Security
- Scientific Research
- Facial Recognition
- ...and many more

Where has Deep Learning Failed?



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Don't Grade Teachers With a Bad Algorithm

The Value-Added Model has done more to confuse and oppress than to motivate.

By [Cathy O'Neil](#)

15 May 2017, 12:00 BST *Corrected 16 May 2017, 15:01 BST*

[View](#)

Personality Tests Are Failing American Workers

All too often, they filter people out for the wrong reasons.

By [Cathy O'Neil](#)

18 January 2018, 14:00 GMT

Machine Bias

There's software used across the country to predict future criminals. And it's biased against blacks.

by Julia Angwin, Jeff Larson, Surya Mattu and Lauren Kirchner, ProPublica

May 23, 2016

TECHNOLOGY

Feds Say Self-Driving Uber SUV Did Not Recognize Jaywalking Pedestrian In Fatal Crash

November 7, 2019 · 10:57 PM ET



RICHARD GONZALES



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 10 November 2019 Share

So What Should We Do?



BRACE YOURSELVES

**THE AUDIT IS
COMING**

