

Simplifying AI

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<https://dimensionalmechanics.com>

Artificial Intelligence:

The science and engineering of making computer systems able to perform activities normally associated with humans such as speech and pattern recognition, image and video classification, translation and decision-making

Artificial Intelligence

1950s to Present

Early artificial intelligence – important early breakthroughs

Machine Learning

1980s to Present

Neural networks and other learning algorithms

Deep Learning

2000s to Present

Widescale AI adoption

By 2025, AI is expected to create up to \$1 1.2 trillion in wealth and cost savings for businesses*

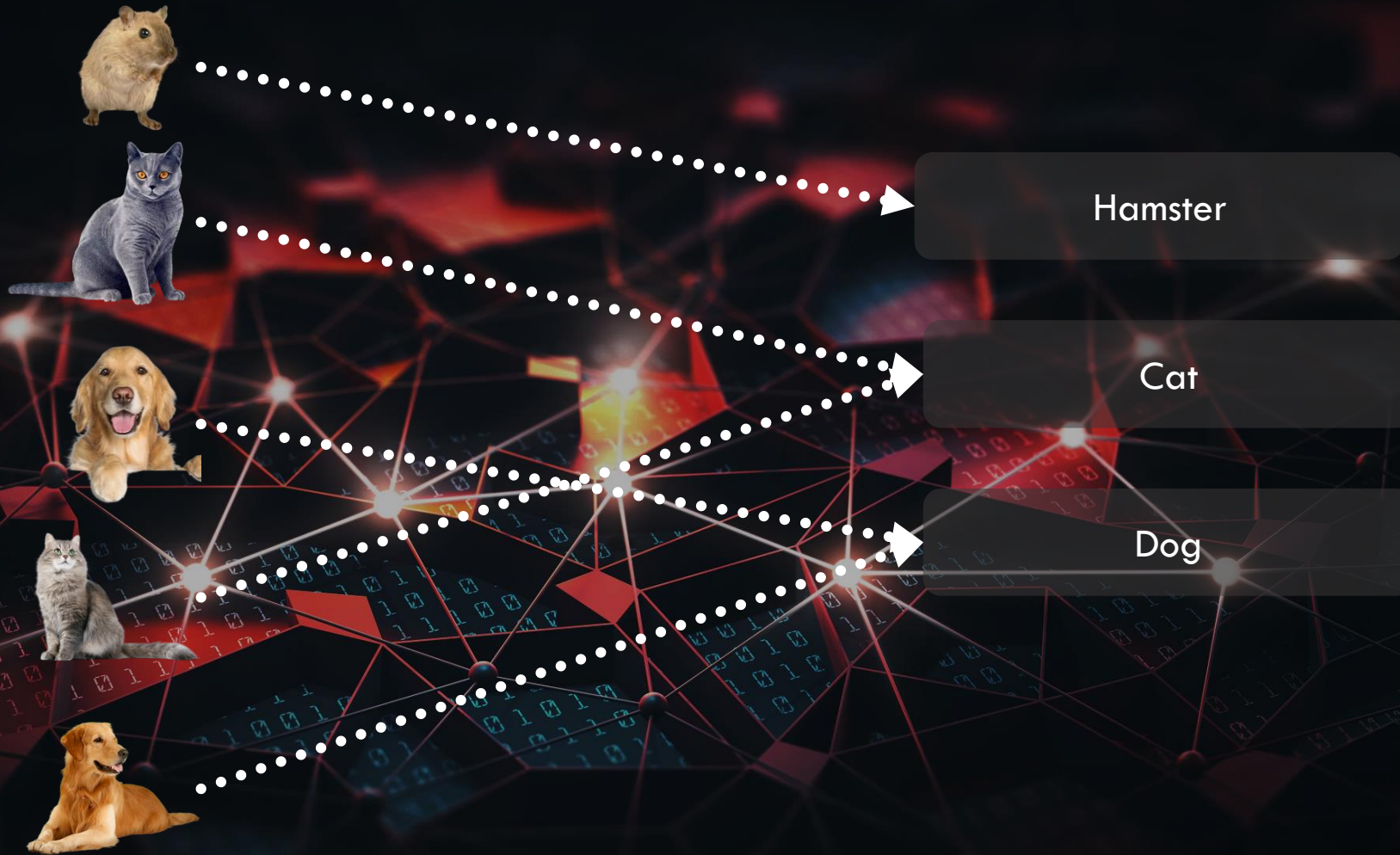
Automation of knowledge work: \$5.2 – 6.7 Trillion

Advanced robotics: \$1.7 – 4.5 Trillion

“Leading companies are using [data and analytics] not only to improve their core operations but also to launch entirely new business models...Yet while the volume of available data has grown exponentially in recent years, most companies are capturing only a fraction of the potential value in terms of revenue and profit gains.”

McKinsey Global Institute – May 2017

Image Classification:



Automated Tagging:



Woman

Walking

Dog

Trees

Sidewalk

Audio Recognition:



Song: Stutter
Band: Elastica

Deep learning is *just* algebra:



AI is Expensive & Hard:



People



Compute



Data



Time

Example:
\$69M spent by a
hospital in Texas on an
AI platform

Doing it yourself:
Est. \$880,000/yr for a
small team on a small
project



NeoPulse™



NeoPulse™ AI Studio

AI to build AI



Portable Inference Models



NeoPulse™ Query Runtime



NML

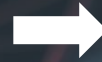
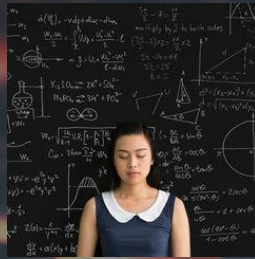
NeoPulse™ Modeling Language (NML)



NeoPulse™



85%+ less code to write



No specialist skill needed



Write once deploy everywhere
Enterprise ready



Highly accurate models
Many types of problems



Fraction of the price



Faster to market

D.M



D.M