poloclub.github.io/#cse6242

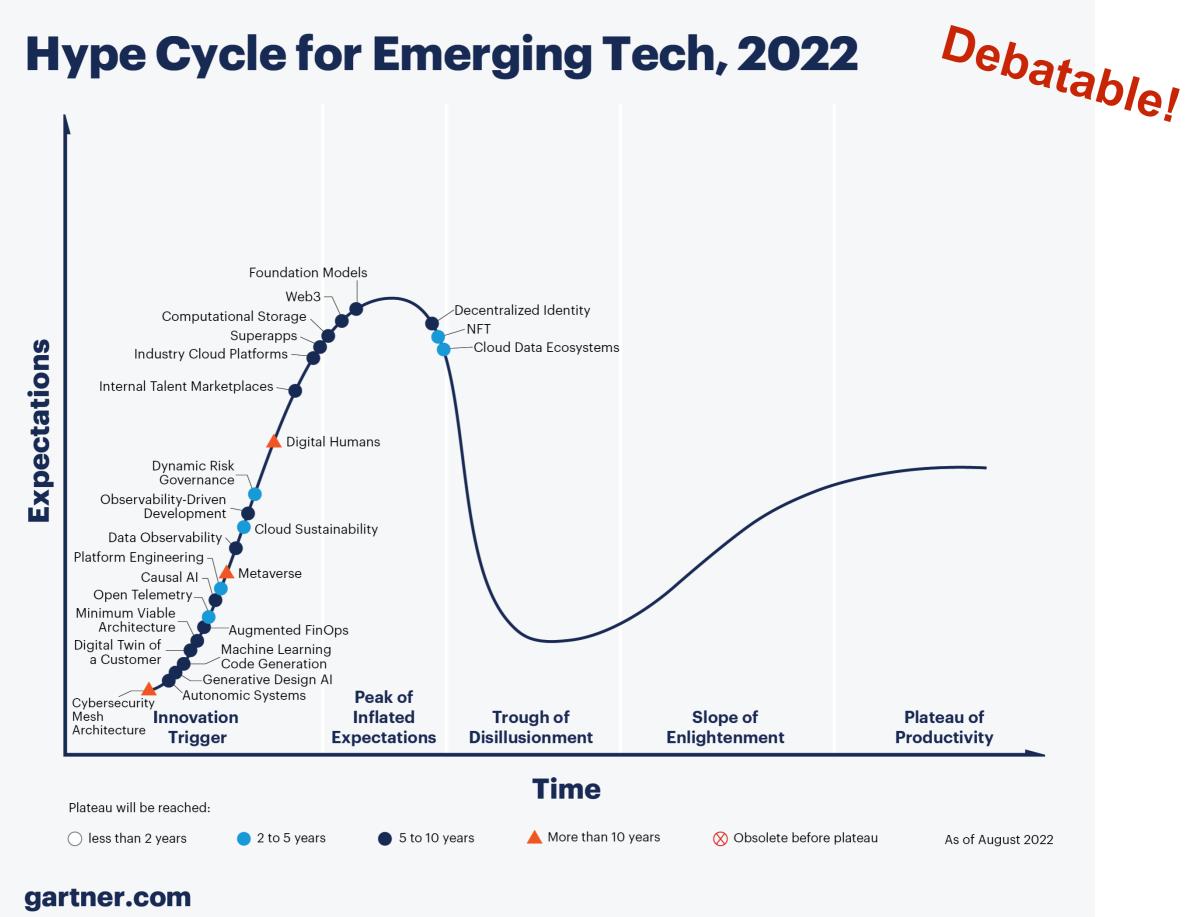
CSE6242/CX4242: Data & Visual Analytics

Data Science Buzzwords

Duen Horng (Polo) Chau

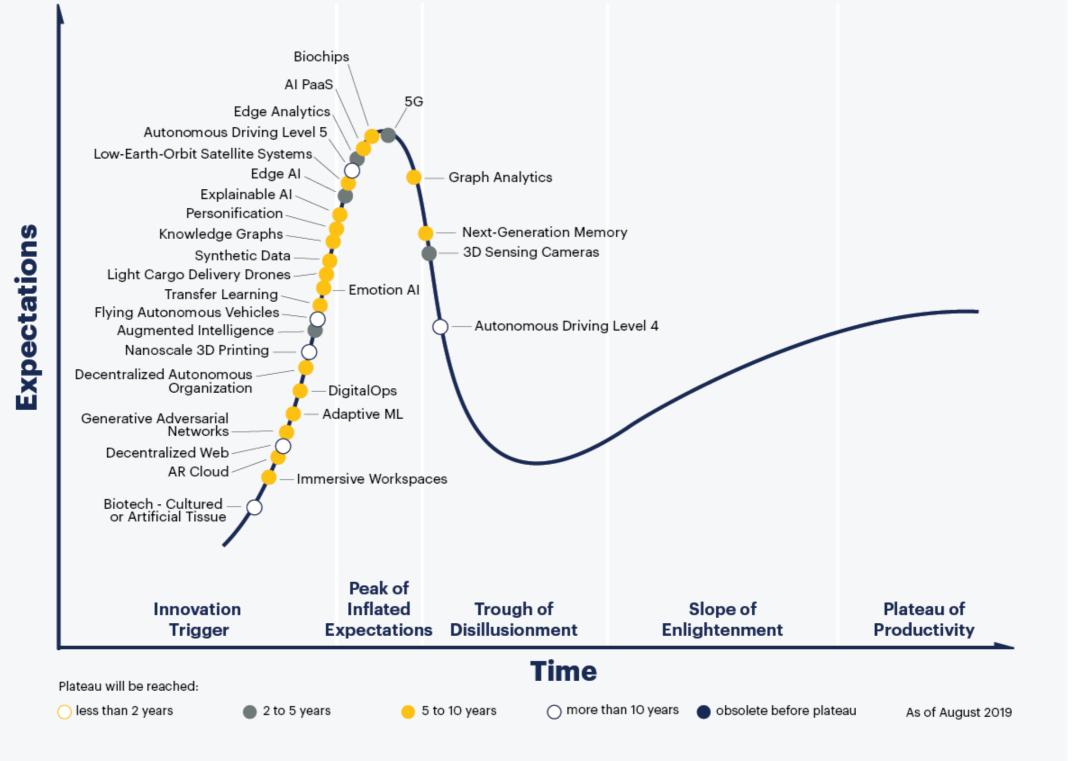
Associate Professor, College of Computing Associate Director, MS Analytics Georgia Tech

Partly based on materials by Guy Lebanon, Jeffrey Heer, John Stasko, Christos Faloutsos





Gartner Hype Cycle for Emerging Technologies, 2019



gartner.com/SmarterWithGartner

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Gartner

Debatable!

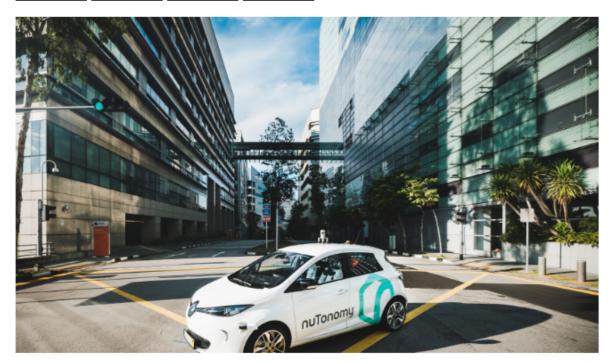
Polo's Motto Keep learning new things and be cautiously optimistic!

"Artificial Intelligence"

Self-Driving Taxis Hit the Streets of Singapore

by Kirsten Korosec @kirstenkorosec AUGUST 25, 2016, 4:09 AM EDT





Google AI beats Go world champion again to complete historic 4-1 series victory

Posted Mar 15, 2016 by Jon Russell (@jonrussell)







The battle between Google's artificial intelligence and Go world champion Lee Sedol concluded today after the former (AlphaGo) triumphed to win the five-game series 4-1.

Retrieved from: http://www.theaustralian.com.au/business/wall-street-journal/selfdriving-taxis-hit-the-road-in-singapore/news-story/73116ddc2e7c043578cb7b87d8264f5b

Retrieved from: https://techcrunch.com/2016/03/15/google-ai-beats-go-world-champion-again-to-complete-historic-4-1-series-victory/

"Neither Autopilot nor the driver noticed the white side of the tractor trailer against a brightly lit sky, so the brake was not applied"

MODEL MODEL S

How a Self-Driving Uber Killed a Pedestrian in Arizona

Microsoft silences its new A.I. bot Tay, after

Twitter users teach it racism [Updated]

8+ 💩 🕟 🔽 F

Posted Mar 24, 2016 by Sarah Perez (@sarahintampa)

MARQUEE

THEATRE

By TROY GRIGGS and DAISUKE WAKABAYASHI UPDATED MARCH 21, 2018

A woman was struck and killed on Sunday night by an autonomous car operated by Uber in Tempe, Ariz. It was believed to be the first pedestrian death associated with selfdriving technology.

What We Know About the Accident

https://www.nytimes.com/interactive/2018/03/20/us/self-driving-uber-pedestrian-killed.html https://www.tesla.com/en_GB/blog/tragic-loss?redirect=no struck while walking her

A Tragic Loss

Next Story

MOEUR PARK

TESLA

The Tesla Team · 30 June 2016

We learned yesterday evening that NHTSA is opening a prelim performance of Autopilot during a recent fatal crash that occur the first known fatality in just over 130 million miles where Auto Among all vehicles in the US, there is a fatality every 94 million a fatality approximately every 60 million miles. It is important t NHTSA action is simply a preliminary evaluation to determine worked according to expectations.

Following our standard practice, Tesla informed NHTSA about What we know is that the vehicle was on a

We're in the 3rd wave of "AI" boom.

Two "Al winters" before.

https://en.wikipedia.org/wiki/History_of_artificial_intelligence

Good Read about AI: White House Report

Preparing for The Future of Artificial Intelligence

https://obamawhitehouse.archives.gov/sites/default/files/whitehouse_files/ microsites/ostp/NSTC/preparing_for_the_future_of_ai.pdf

The Current State of AI

Remarkable progress has been made on what is known as **Narrow AI**, which addresses specific application areas such as playing strategic games, language translation, self-driving vehicles, and image recognition.

Narrow AI underpins many commercial services such as trip planning, shopper recommendation systems, and ad targeting, and is finding important applications in medical diagnosis, education, and scientific research. These have all had significant societal benefits and have contributed to the economic vitality of the Nation.

The Current State of AI

General AI (sometimes called Artificial General Intelligence, or AGI) refers to a notional future AI system that exhibits apparently intelligent behavior at least as advanced as a person across the full range of cognitive tasks.

A broad chasm seems to separate today's Narrow AI from the much more difficult challenge of General AI. Attempts to reach General AI by expanding Narrow AI solutions have made little headway over many decades of research. The current consensus of the private-sector expert community, with which the NSTC Committee on Technology concurs, is that **General AI will not be achieved for at least decades.**"

Likely no Matrix or SkyNet in Your Life Time

I'M SORRY WHAT

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WERE YOU SAYING