

Artificial Intelligence

Tour of the World Wide Web – Session 8

Duke OLLI Fall 2023

David Shamlan

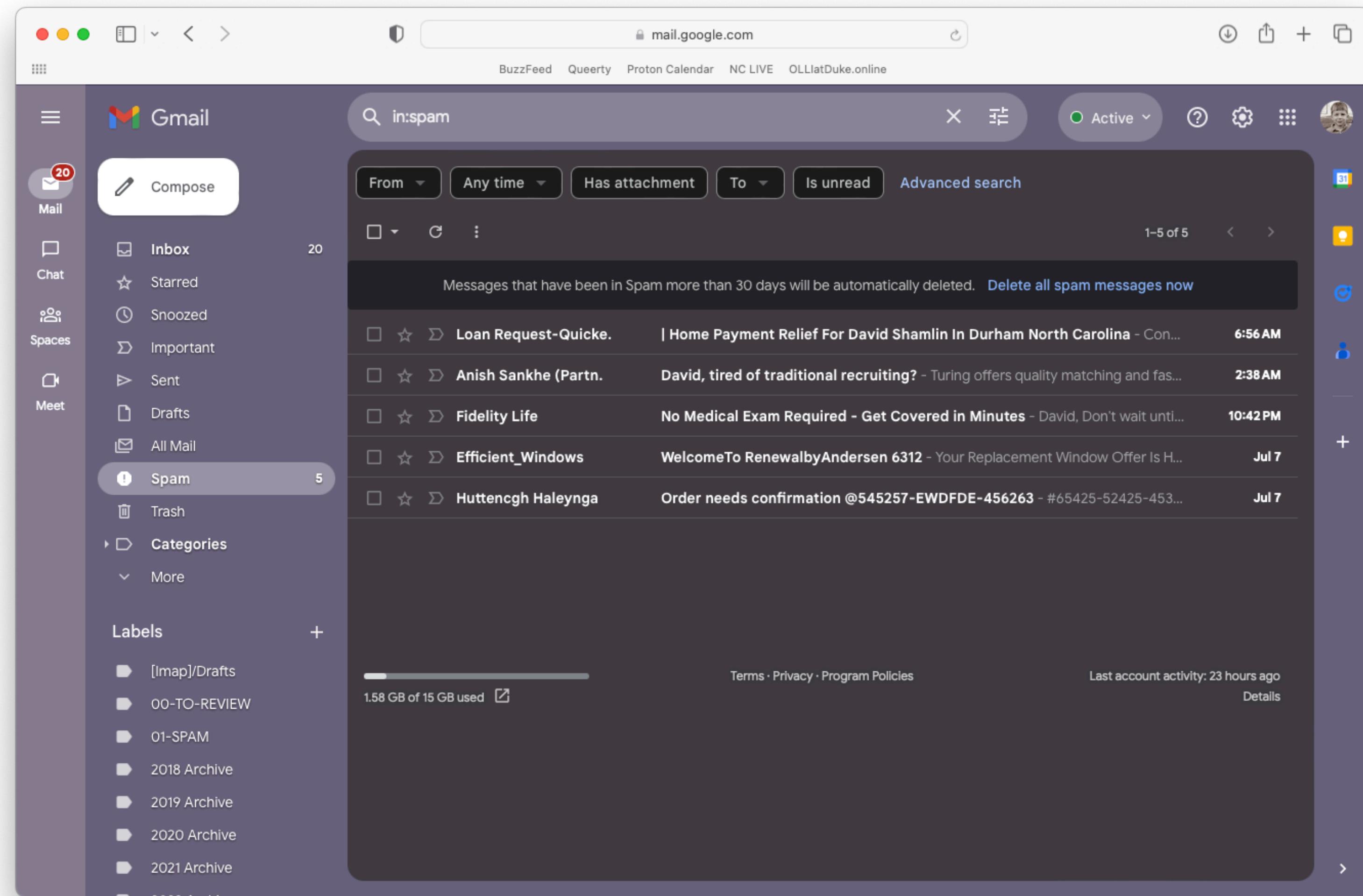
Example: Recommendation Engines

The Netflix interface displays a "TV Action & Adventure" section with thumbnails for "REBIRTH", "THE LAST KINGDOM", "THE WITCHER", "WALKING DEAD", "THE 100", and "ARCHER". Below it is a "Crime & Thrillers" section with thumbnails for "ARGO", "ARTICLE 15", "AMERICAN HUSTLE", "SHERLOCK HOLMES", "ONE DAY", and "TALVAR". A "Because you watched Friends" section follows, featuring thumbnails for "KIM'S CONVENIENCE", "#blackAF", "MERRY HAPPY WHATEVER", "REAL ROB", "marlon", and "one day at a time".

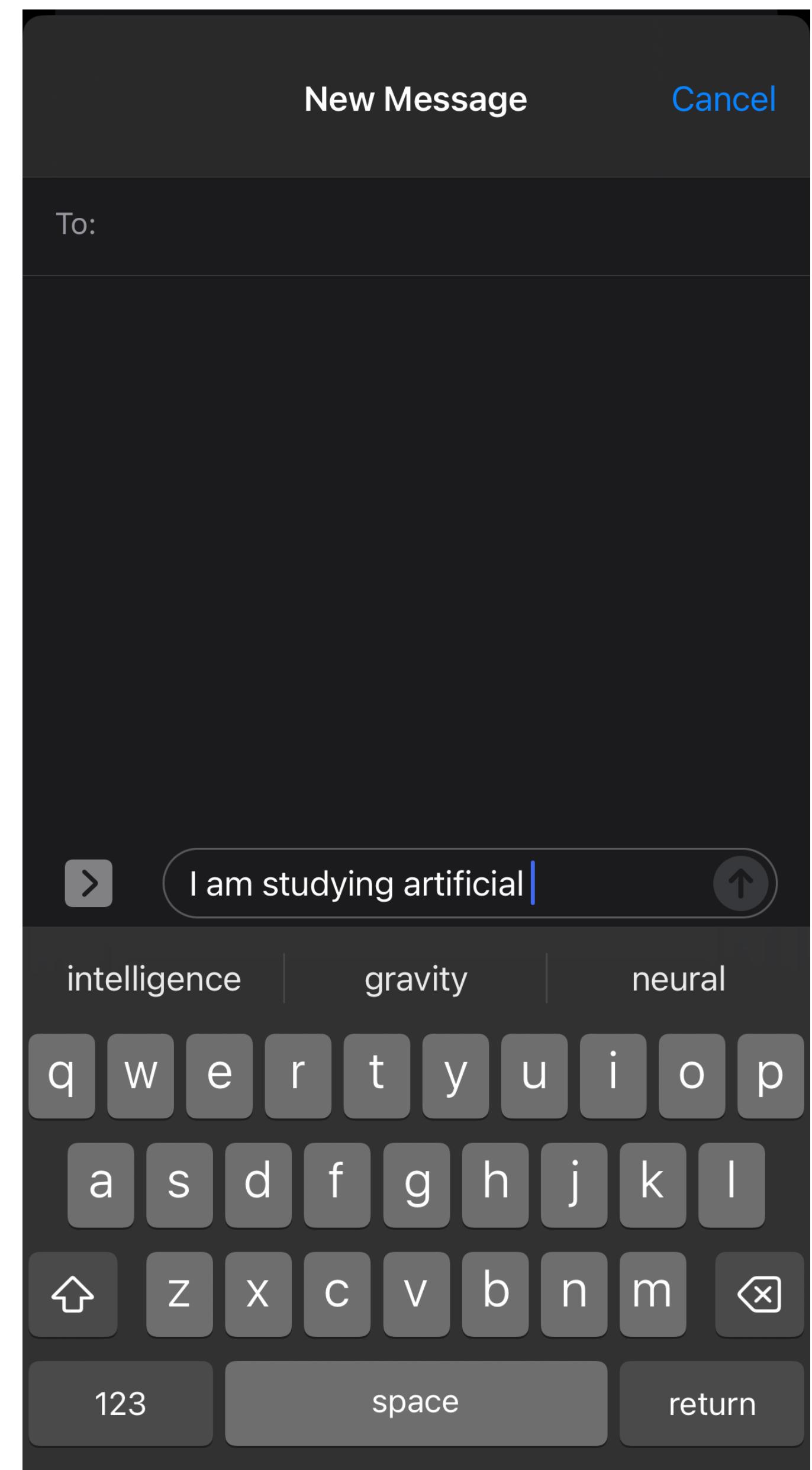
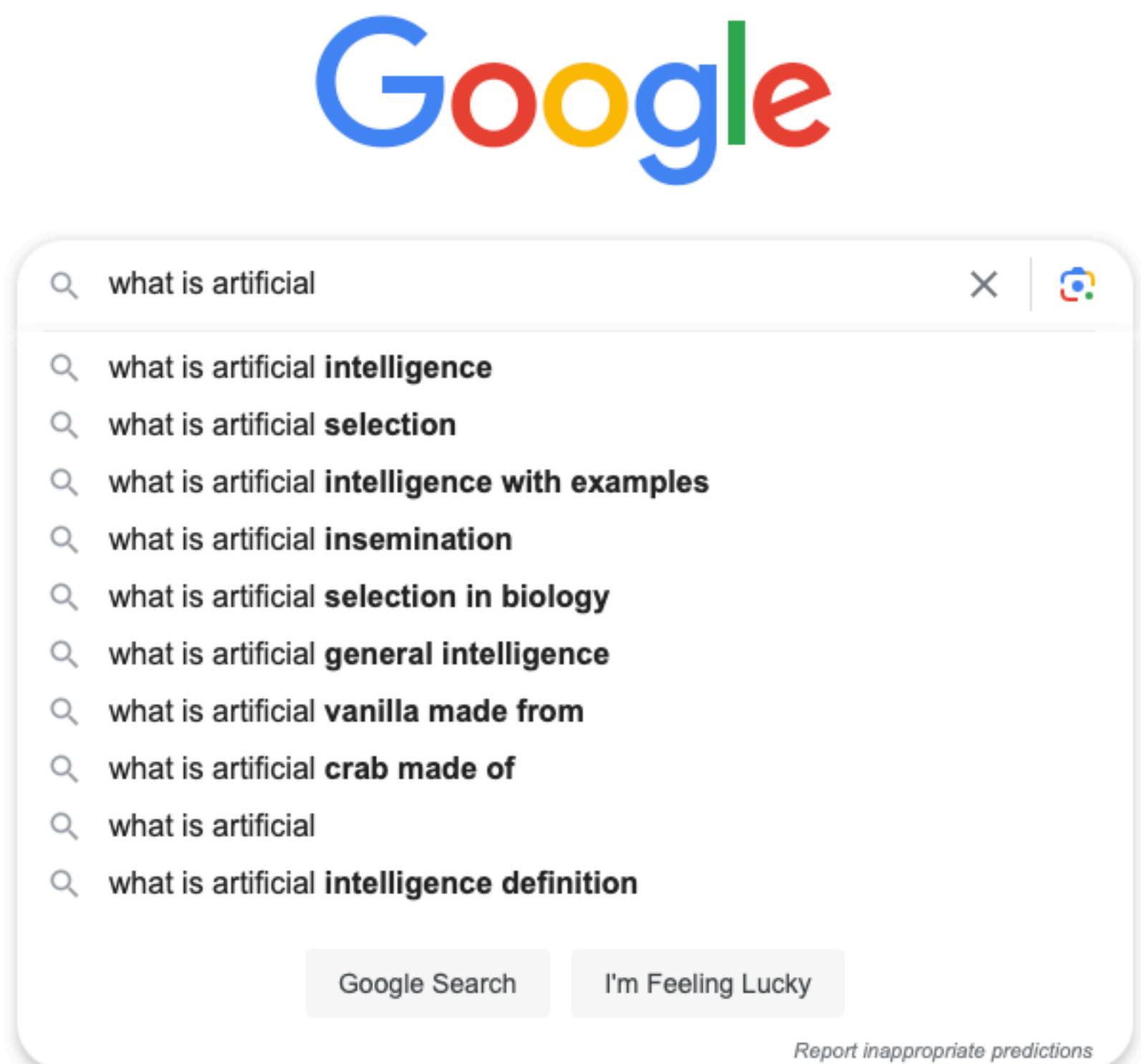
The Amazon interface shows a "Top picks for you" section with ten recommended items arranged in two rows of five. The items include:

- Be Exceptional: Master the Five Traits That Set Extraordinary People Apart by Joe Navarro (\$13.99)
- Worthy of Love: A Gentle and Restorative Path to Healing After Narcissistic Abuse (The... by Debbie Mirza (\$9.99)
- Behavioral Insights (The MIT Press Essential Knowledge series) by Richard H. Thaler and Eliezer N. Fisman (\$12.99)
- Mijello Airtight Watercolor 18-Well Blue Palette (\$10.42)
- Winsor & Newton Cotman Watercolor Paint, 8ml (0.27-oz...) (\$8.06)
- Barking Up the Wrong Tree: The Surprising Science Behind Why Everything You Know About... by Eric Barker (\$14.99)
- Recovery from Gaslighting & Narcissistic Abuse, Codependency & Complex PTSD (3 in 1)... by Don Barlow (\$7.99)
- DANIEL SMITH Extra Fine Watercolor 15ml Paint Tube, ... (\$12.50)
- Recovery from Narcissistic Abuse, Gaslighting, Codependency and Complex PTSD (4 Books in 1)... by Linda Hill (\$6.99)
- Becoming the Narcissist's Nightmare: How to Devalue and Discard the Narcissist While... by Sherry Avorn (\$9.99)

Example: Email Spam Filters



Example: Autocompletion



Example: Voice Recognition



alexa

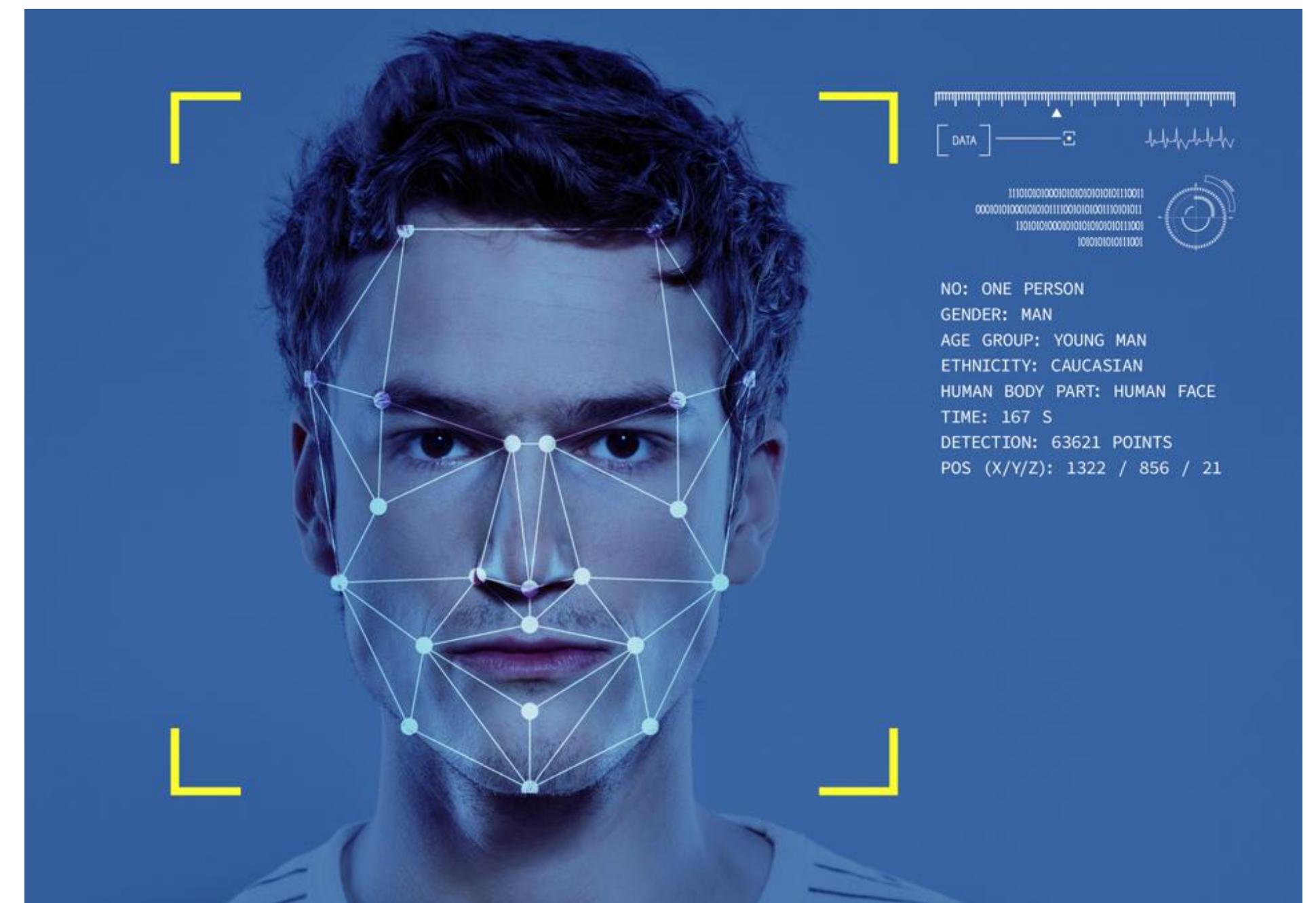
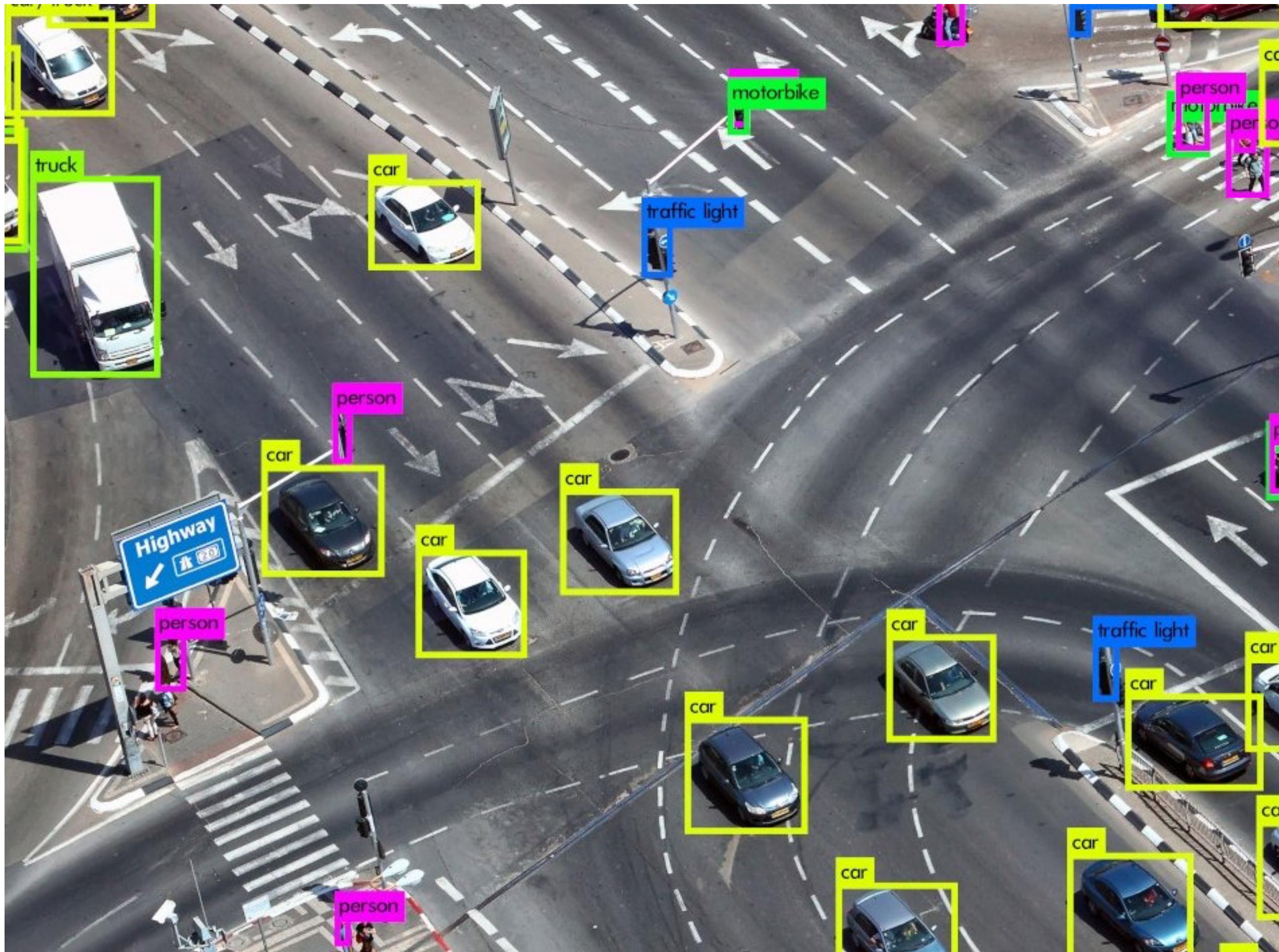


Bixby



Siri

Example: Image Recognition





Alan Turing

“Computing Machinery and Intelligence”

Mind, October 1950

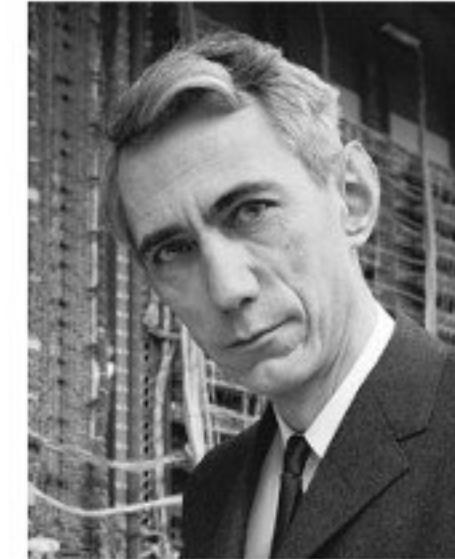
1956 Dartmouth Conference: The Founding Fathers of AI



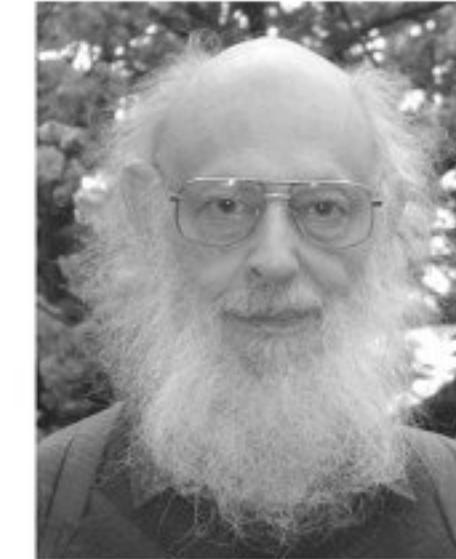
John McCarthy



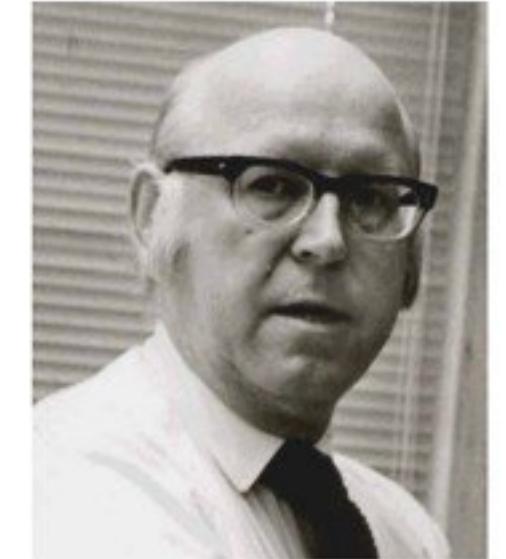
Marvin Minsky



Claude Shannon



Ray Solomonoff



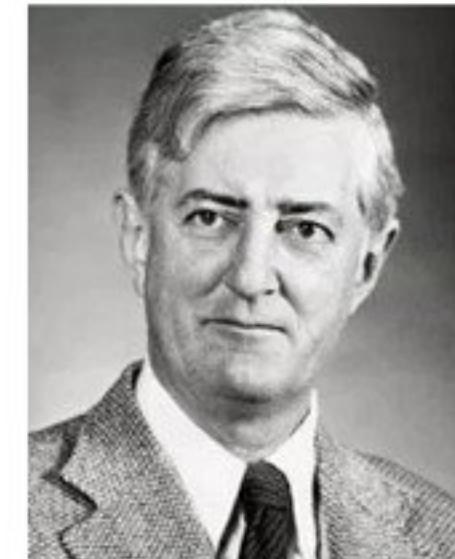
Alan Newell



Herbert Simon



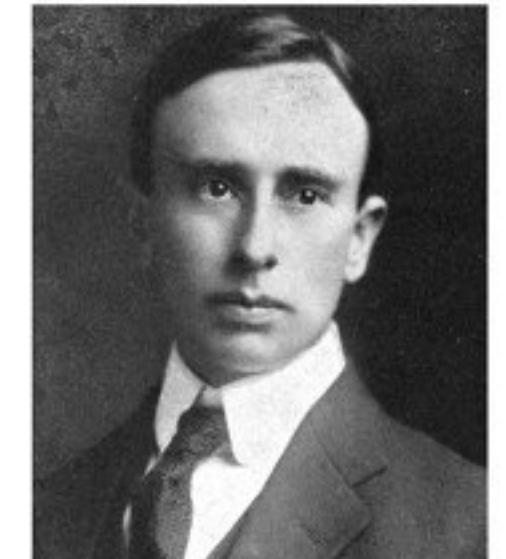
Arthur Samuel



Oliver Selfridge



Nathaniel Rochester



Trenchard More

Reactive

Limited Memory

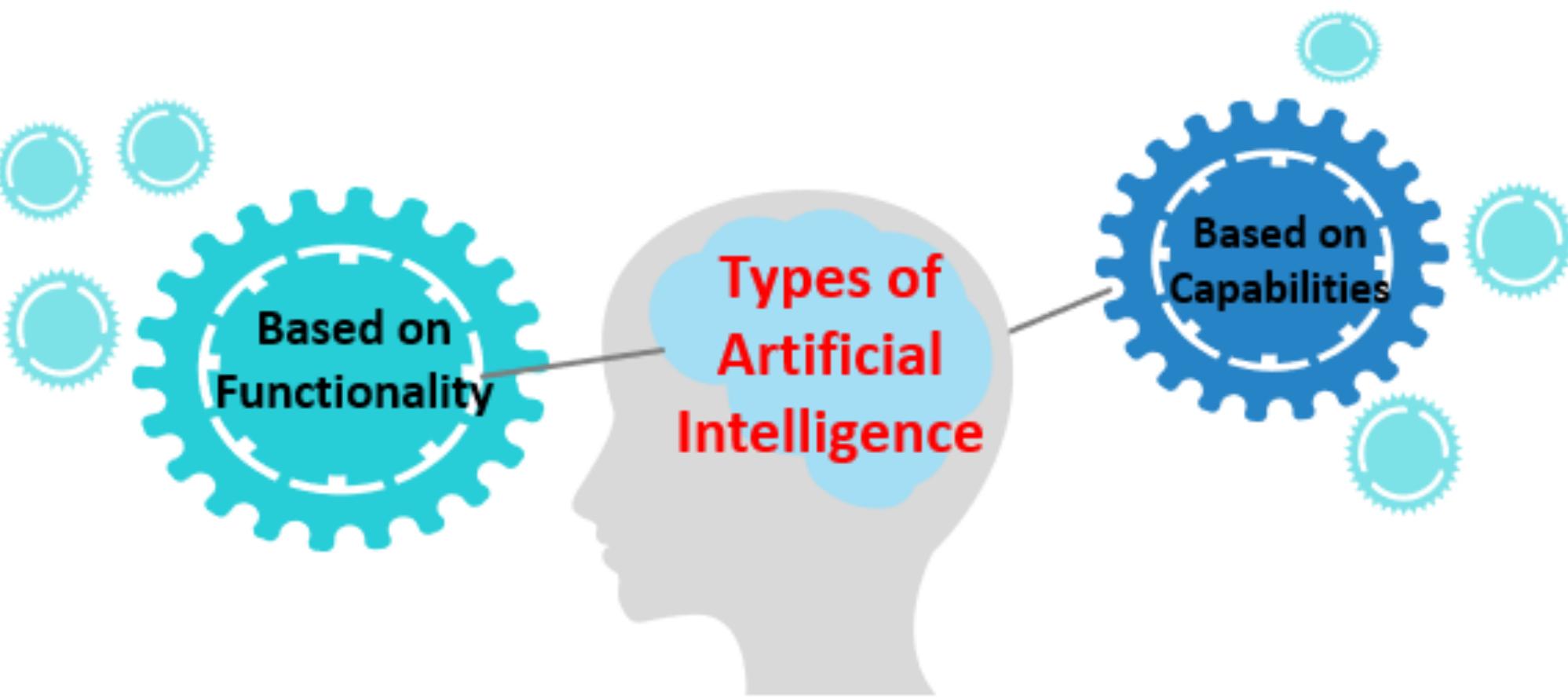
Theory of Mind

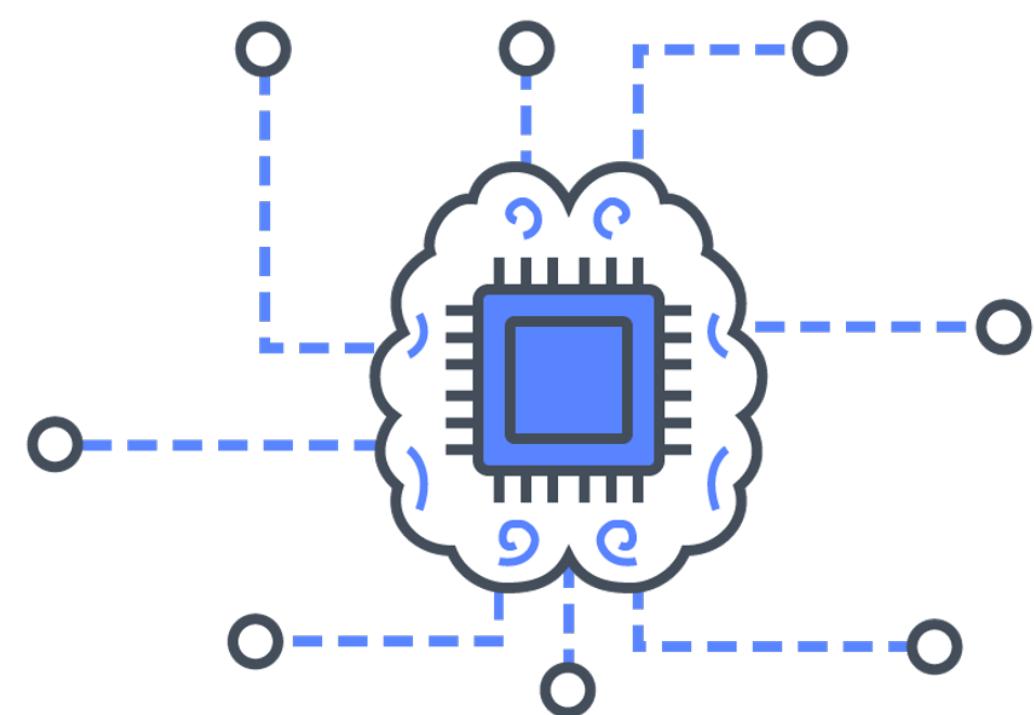
Self Aware

Narrow (ANI)

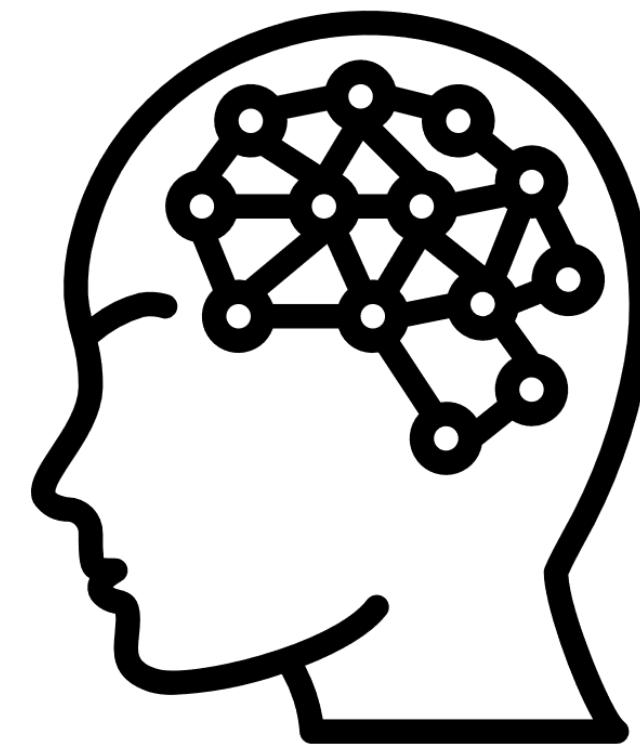
General (ASI)

Super (AGI)

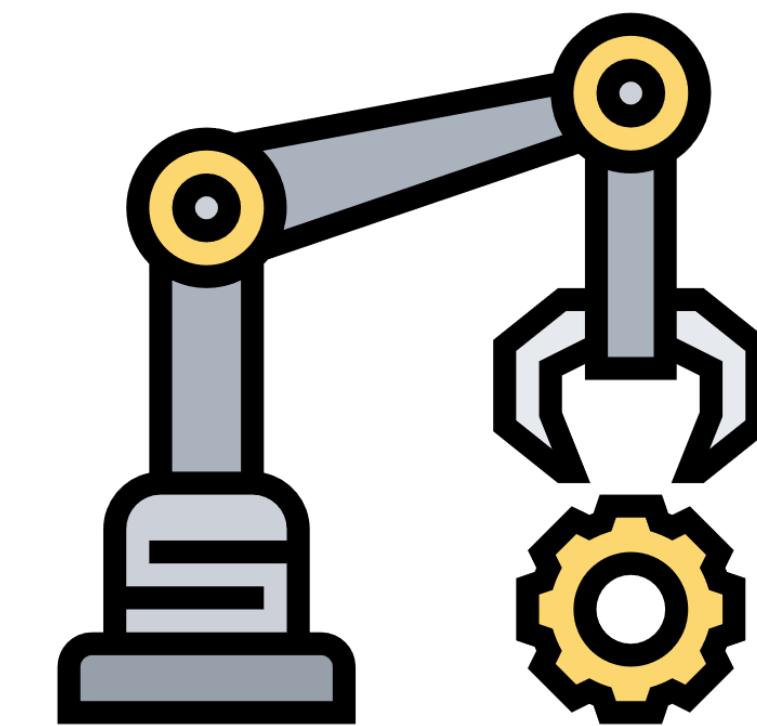




Machine Learning



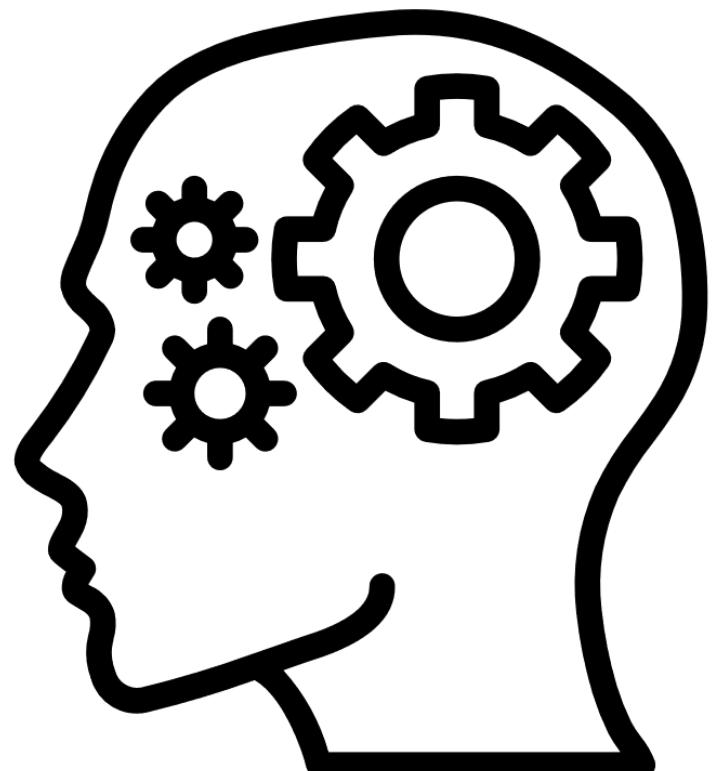
Neural Networks



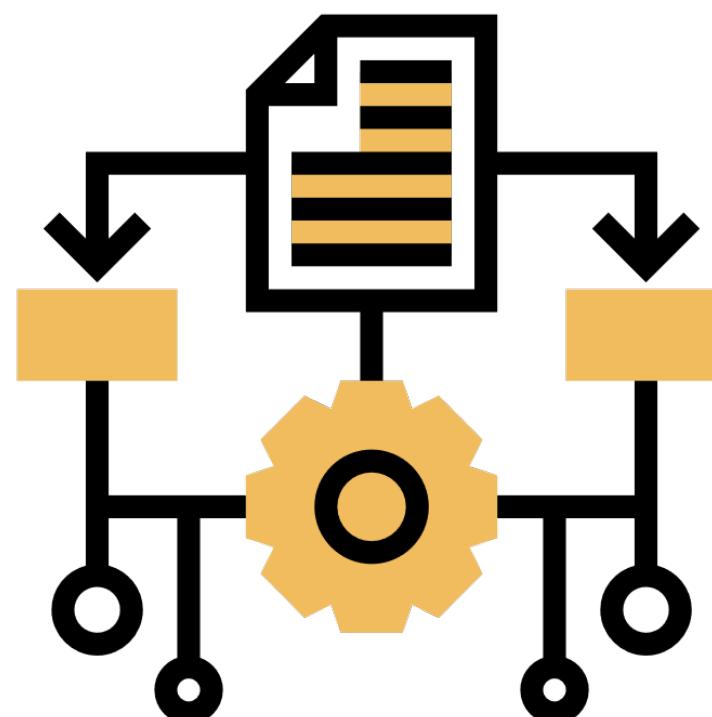
Robotics



Pattern Recognition



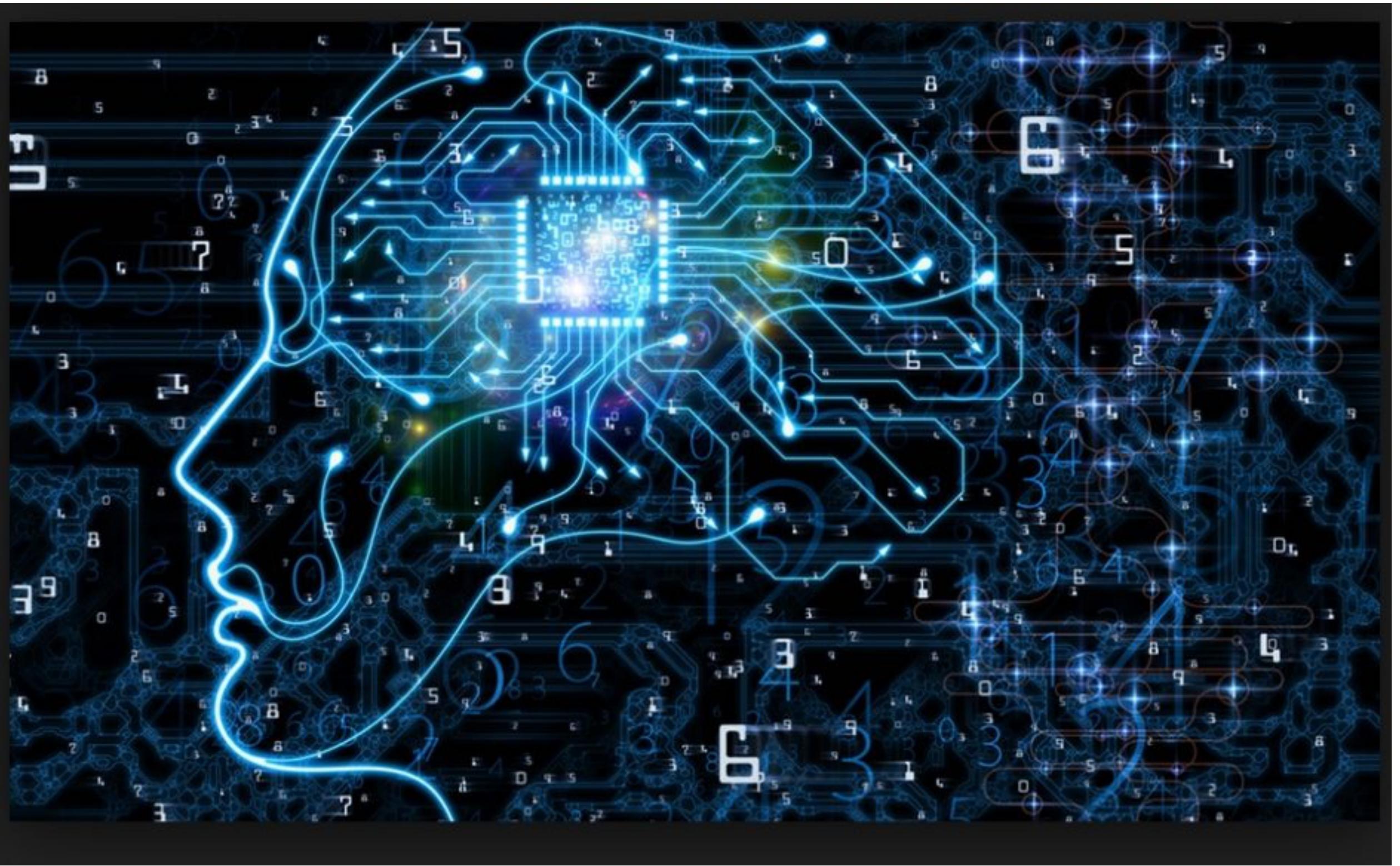
Expert Systems



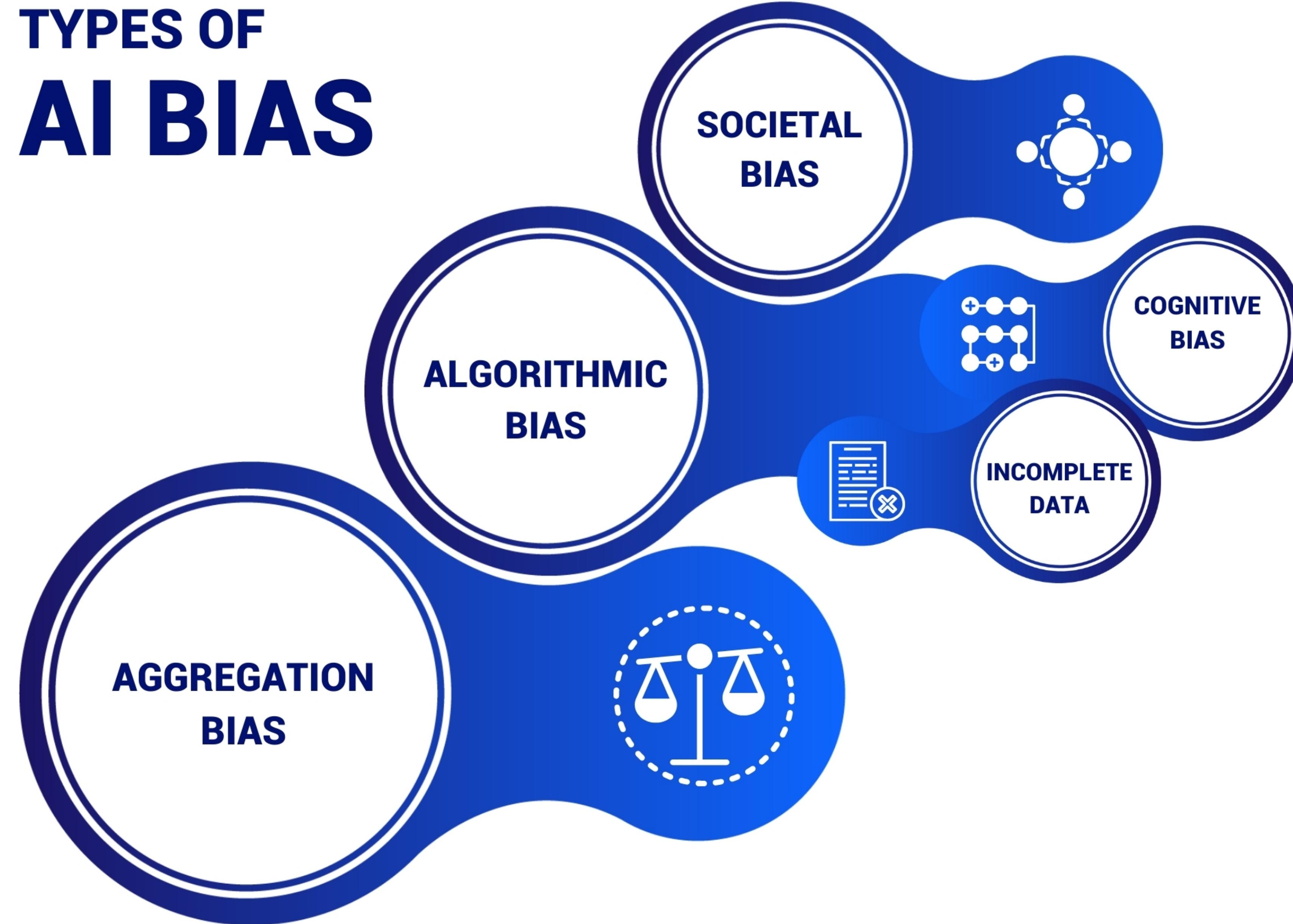
Fuzzy Logic



Natural Language Processing

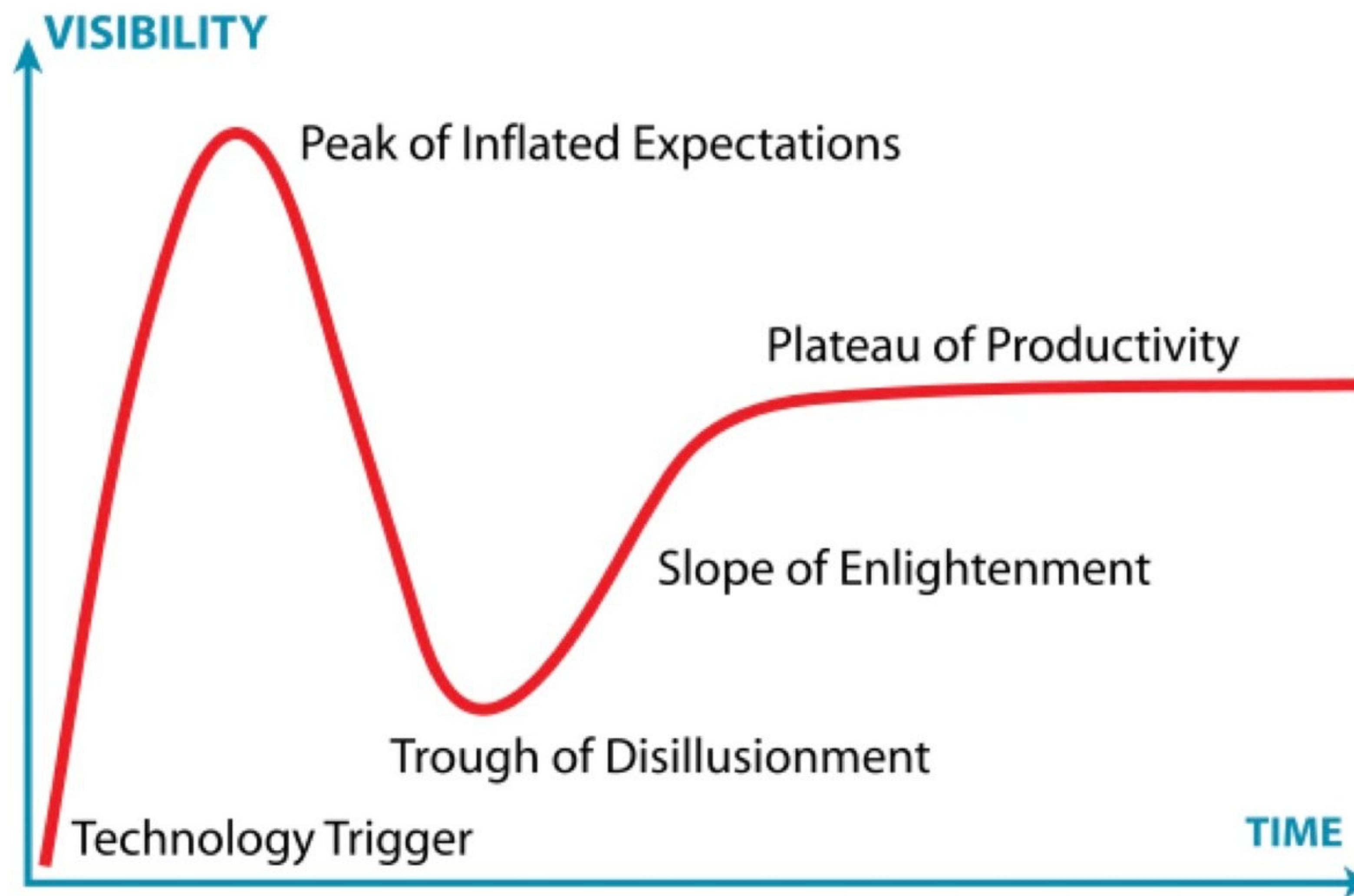


TYPES OF AI BIAS

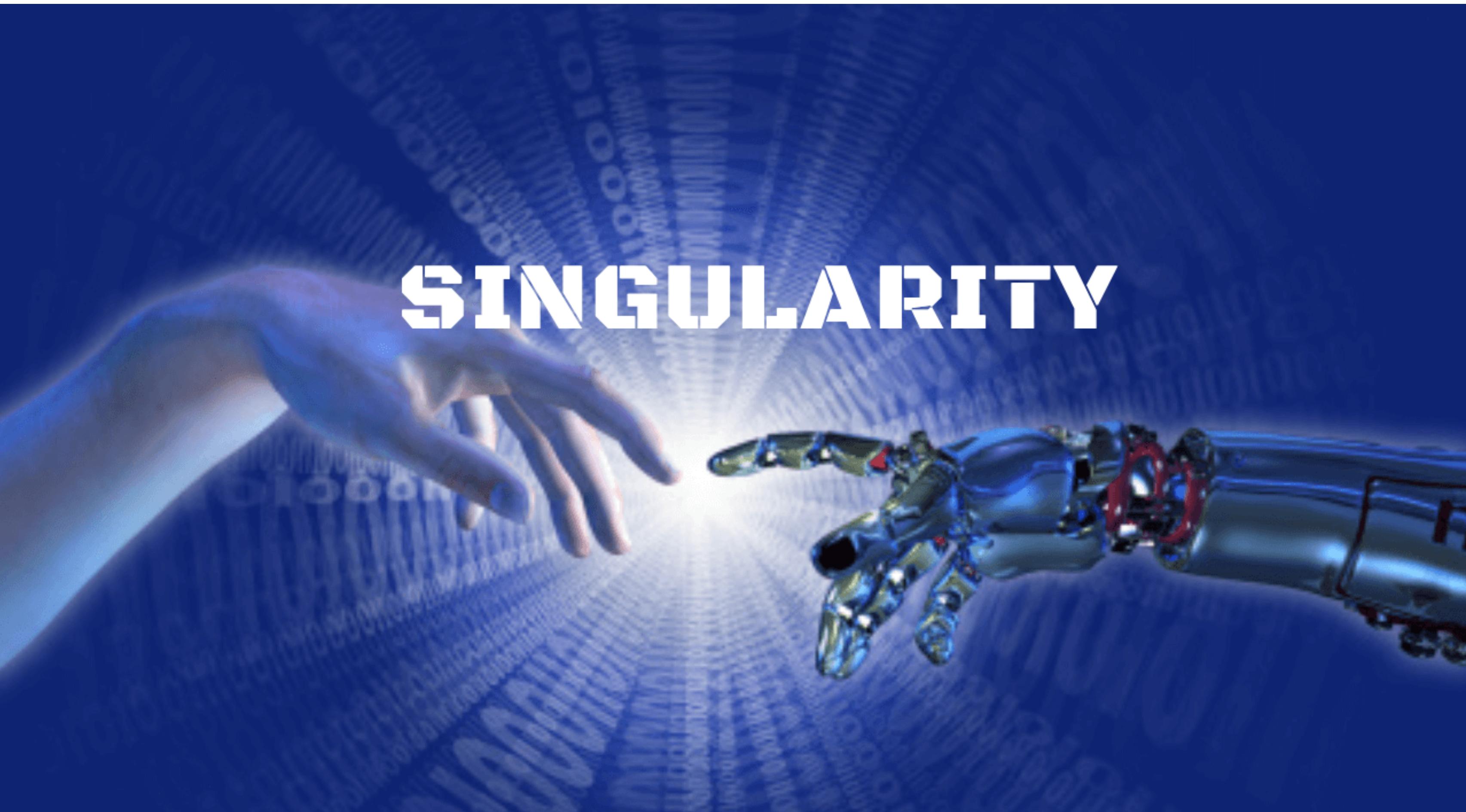




Gartner Hype Cycle



SINGULARITY



Feedback

- What is the most valuable thing you learned in this course?
- What is the least valuable thing you learned in this course?
- How valuable is the hands on “how to...” content?
-

1. Size, Shape, & History
2. Cloud (including “Networking 101”)
3. Browser Basics
4. Browser Basics
5. Search
6. Assessing quality of a site / source (including mis-/dis-information)

