Introduction to Artificial Intelligence

DA 221

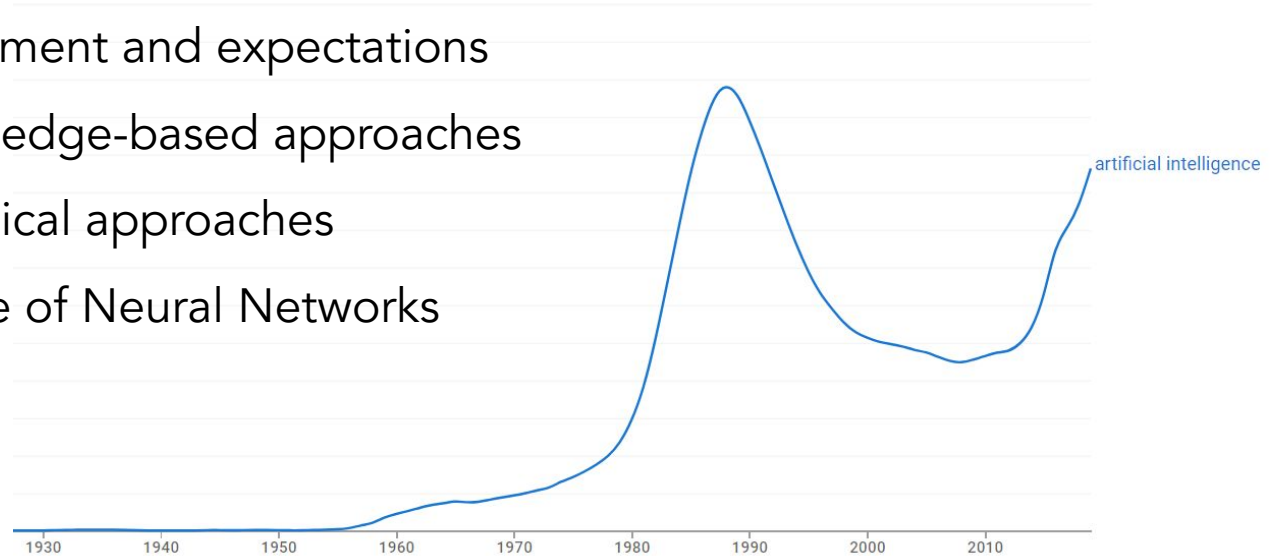**Jan - May 2023** **IIT Guwahati**

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Lecture 2

AI History

- 1940 - 1950: Early days
- 1950 - 1970: Excitement and expectations
- 1970 - 1990: Knowledge-based approaches
- 1990 - 2005: Statistical approaches
- 2005 - Present: Rise of Neural Networks

artificial intelligence

1930   1940   1950   1960   1970   1980   1990   2000   2010

Let's start with getting aware of some AI developments

- When?

- Researchers?

- Problems addressed?

- Places and Companies?

MIND

A QUARTERLY REVIEW

OF

PSYCHOLOGY AND PHILOSOPHY

I.—COMPUTING MACHINERY AND INTELLIGENCE

By A. M. Turing

Alan Turing - Imitation Game - Can machines think?

The Autonomous-Car Chaos of the 2004 Darpa Grand Challenge

The self-driving vehicles smashed, burned, flipped, and tipped. But the ambitious race through the Mojave launched an industry.

https://www.wired.com/story/autonomous-car-chaos-2004-darpa-grand-challenge/

DARPA Grand Challenge: First Round

AlphaGo playing the game

Connecting these developments with the Intelligent Systems Framework
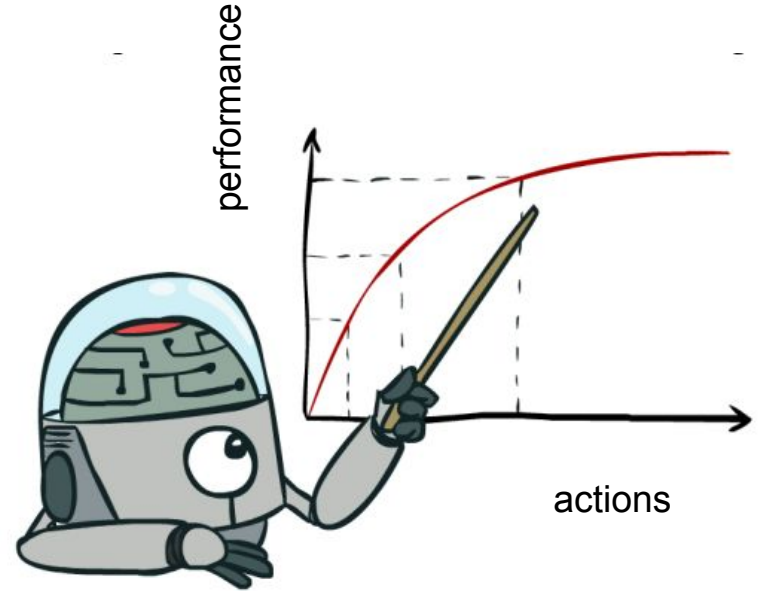
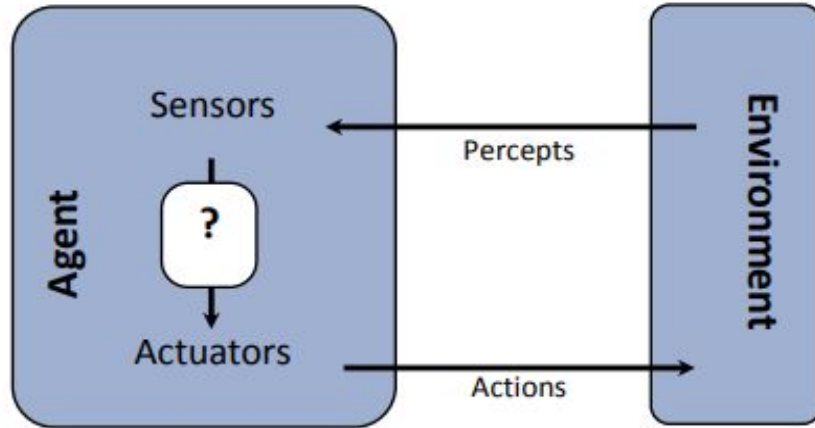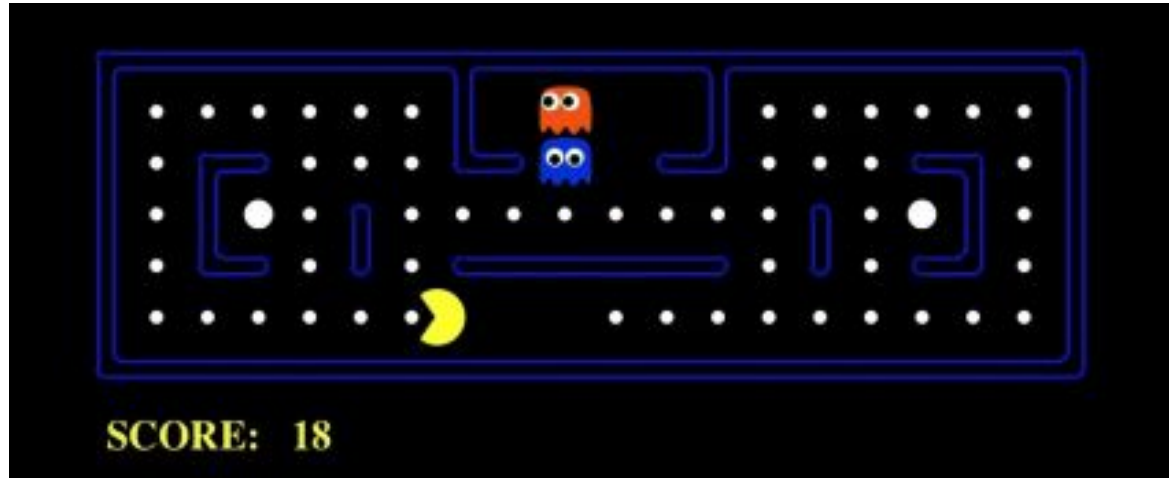# Artificial Intelligence

Image credits: CS188, UC Berkeley
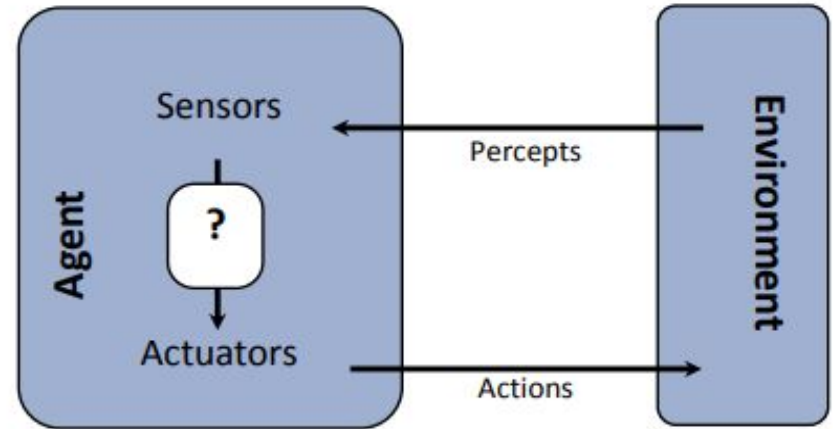
Some examples

Pacman

Some more examples

Lets' pool some more example and how they fall into this framework

- Image classification
- Smart air conditioner
- Smart door opening system
- Chat bot
- Self-driving cars

Thank you