# Introduction to Artificial Intelligence

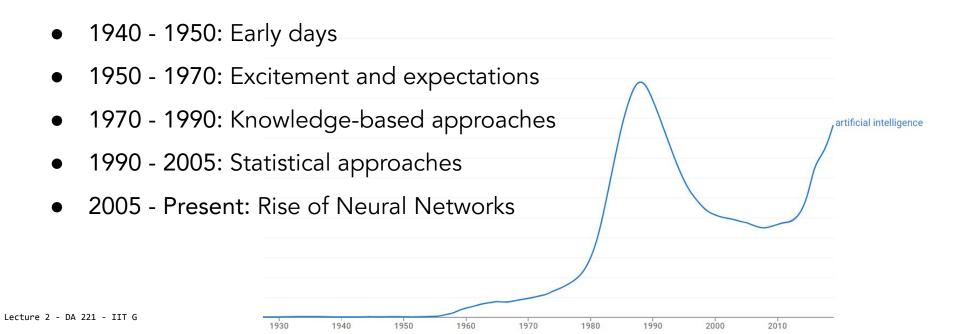
**DA 221** 

Jan - May 2023

**IIT Guwahati** 

Instructors: Neeraj Sharma & Arghyadip Roy

### Al History



# Let's start with getting aware of some Al 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/



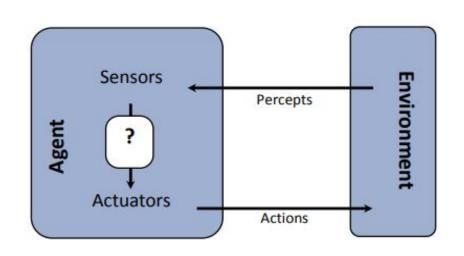
DARPA Grand Challenge: First Round



AlphaGo playing the game

# Connecting these developments with the Intelligent Systems Framework

### Artificial Intelligence



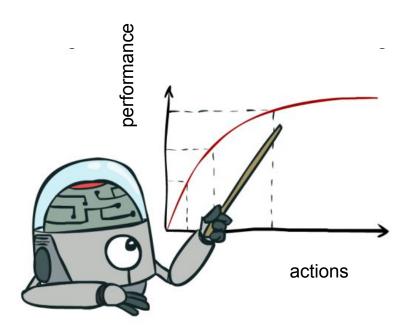


Image credits: CS188, UC Berkeley

# 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

