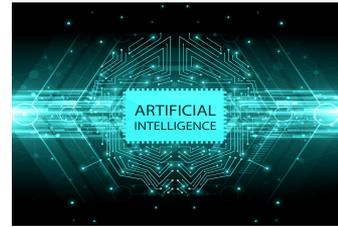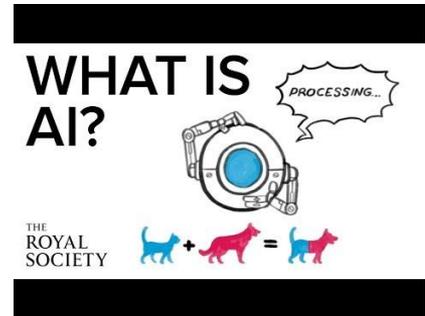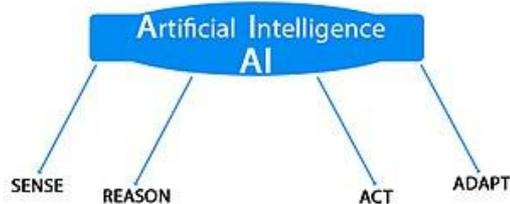# Artificial Intelligence

Hansika Kommanavancha | Katherine Martin | Audrey Creighton

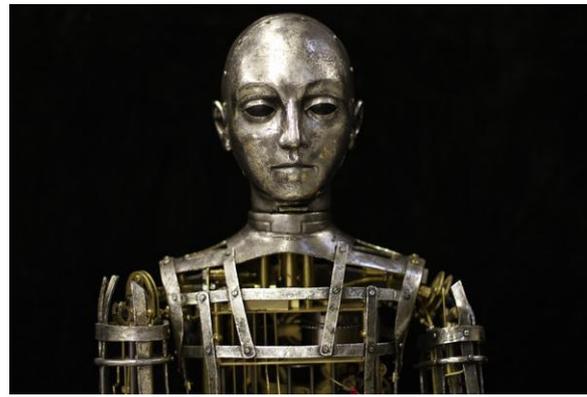# What is artificial intelligence (ai)?

- The ability of a computer or computer-controlled robot to perform tasks normally associated with humans
  - Ability to reason
  - Discover meaning
  - Generalize knowledge
  - Learn from past experiences
  - Problem solve
- To think and act like humans

A Brief History of AI

- Founded in 1956 at Dartmouth College

- Got off to a slow start but really took off at the end of the 20th century

- Turing test made by Alan Turing in 1950
  - Test whether a computer can convincingly act like a human
  - People don't think it works anymore

AI today

- Artificial intelligence (AI) makes it possible for machines to:
  - learn from experience
  - adjust to new inputs
  - perform human-like tasks.
- Current day examples:
  - Siri, Alexa, and Google Home
  - Commercial flights use AI autopilot
  - Cleaning and labor robots

DEEPMIND AI LEARNED HOW TO WALK

AI in the Future

The future of AI is everywhere:

- Manufacturing , Customer Service, Healthcare, Education

People are hoping that there will be robots who:

- Act and make decisions like humans
- Can mingle with humans and help others in need
- Can take on human jobs and labor work

Pros & Cons

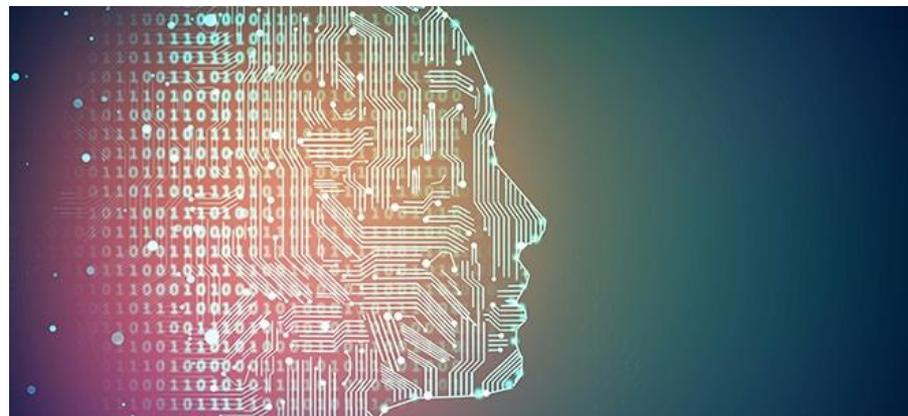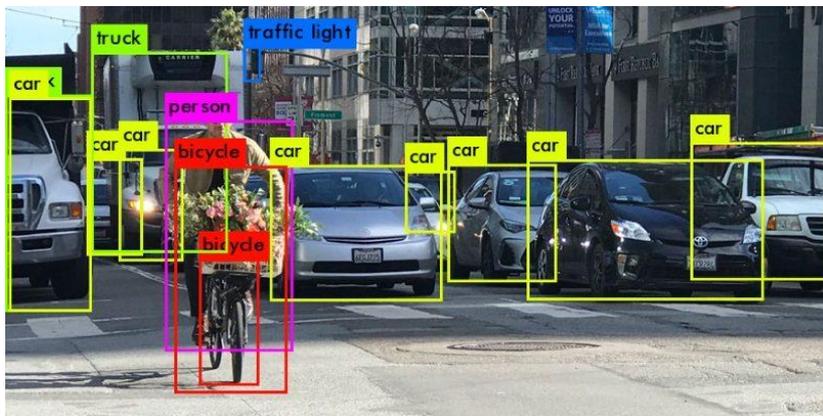| PROS	CONS
Doesn't tire quickly	High cost
Fast decision maker	Cannot think creatively
Reduces room for human error	Unemployment rates increase

AI In The Healthcare Industry

- Diagnosing Diseases

- Working with contagious patients
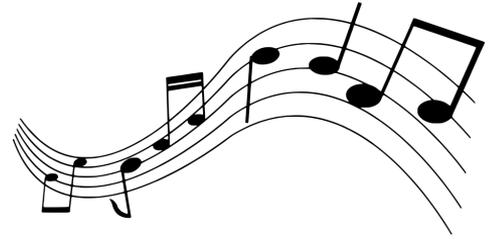
- Automating administrative tasks

Image Recognition

- Seeing and understanding

- Researchers feed the computer images
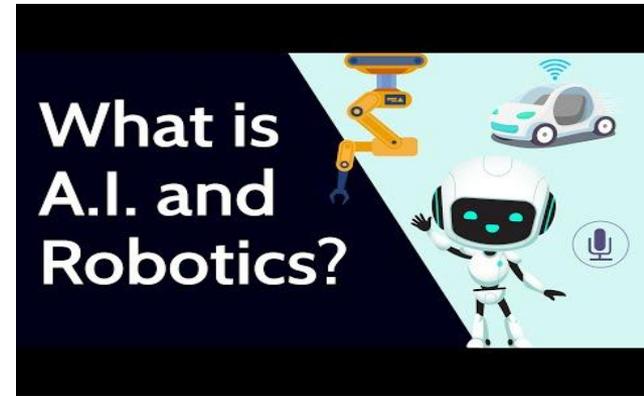
- Driverless cars

Neuroscience With Music

- Therapeutic method used to calm the brain
- Stimulates brain waves and patterns
- How can music be used with AI?
  - Create device representing human brain
  - Observe how music affects brain waves and patterns
  - Use as cure for illnesses

AI linked with Robotics

- **What is a robot?**
  - A machine able to perform a complex series of actions automatically
    - Programmable by computers
    - Help us complete tasks efficiently

- **Why use AI with robotics?**
  - Assembly
  - Packaging
  - Customer Service

-

CURRENT PROJECTS WITH AI

- *Tesla*
  - Autopilot feature
  - Predictive capability of its self-driving system
- *Alexa*
  - Interacts with human questions
- *Netflix*
  - Uses alarmingly accurate predictions to deliver more relevant and appealing content to viewers
    - Analyzes past behaviour, viewed content, and customer reactions to movies and shows.
    - After clicking the "thumbs up" icon after watching something on Netflix, AI registers reaction
- *Amazon*
  - Looks at items you have searched for before to provide advertisements for things you might be interested in or might need with your current purchase

In Conclusion...

Thank You!