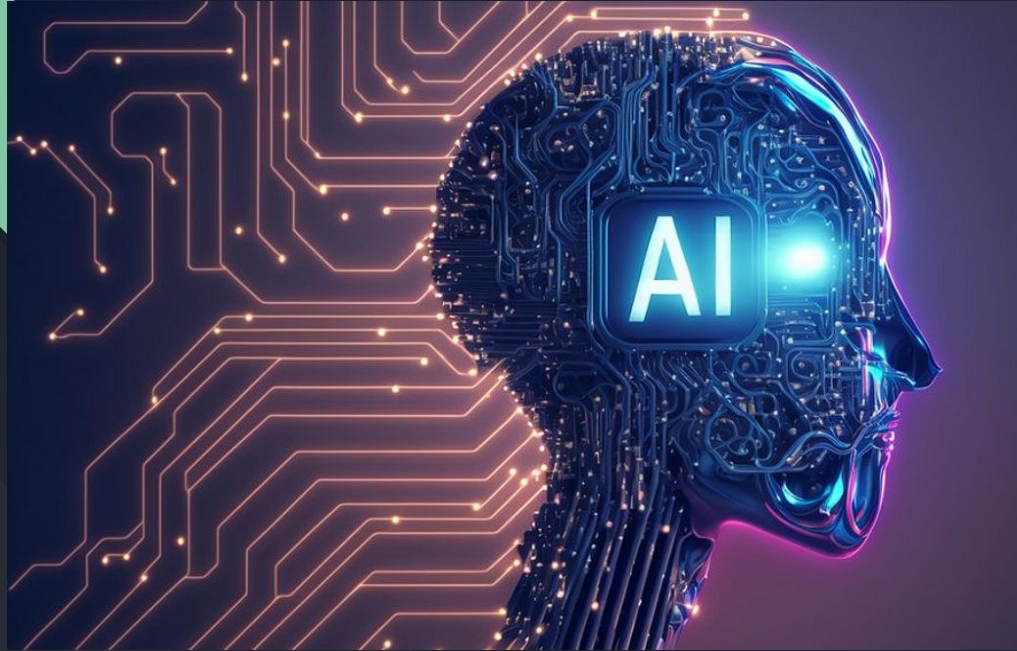



# INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)

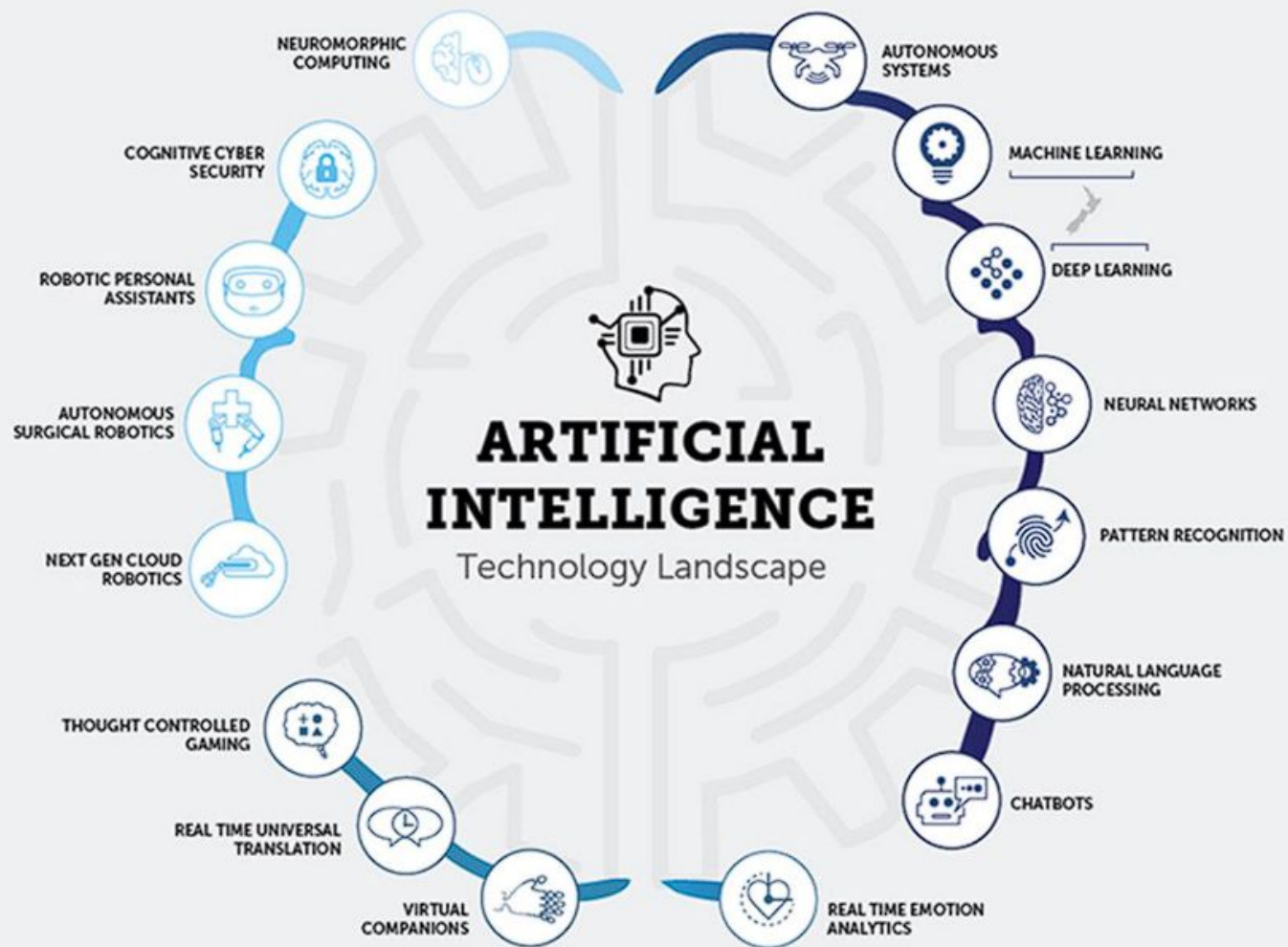


ALEENA ROY  
MTECH  
RIT

What is  
**Artificial  
Intelligence**



- 
- AI (Artificial Intelligence) is the simulation of human intelligence in machines programmed to think, learn, and solve problems.
  - AI is like teaching a machine to make decisions, similar to how humans use their experience and knowledge.
  - AI is transforming the world by enabling machines to mimic human intelligence. It is already embedded in our daily lives and is shaping the future.





## ARTIFICIAL INTELLIGENCE

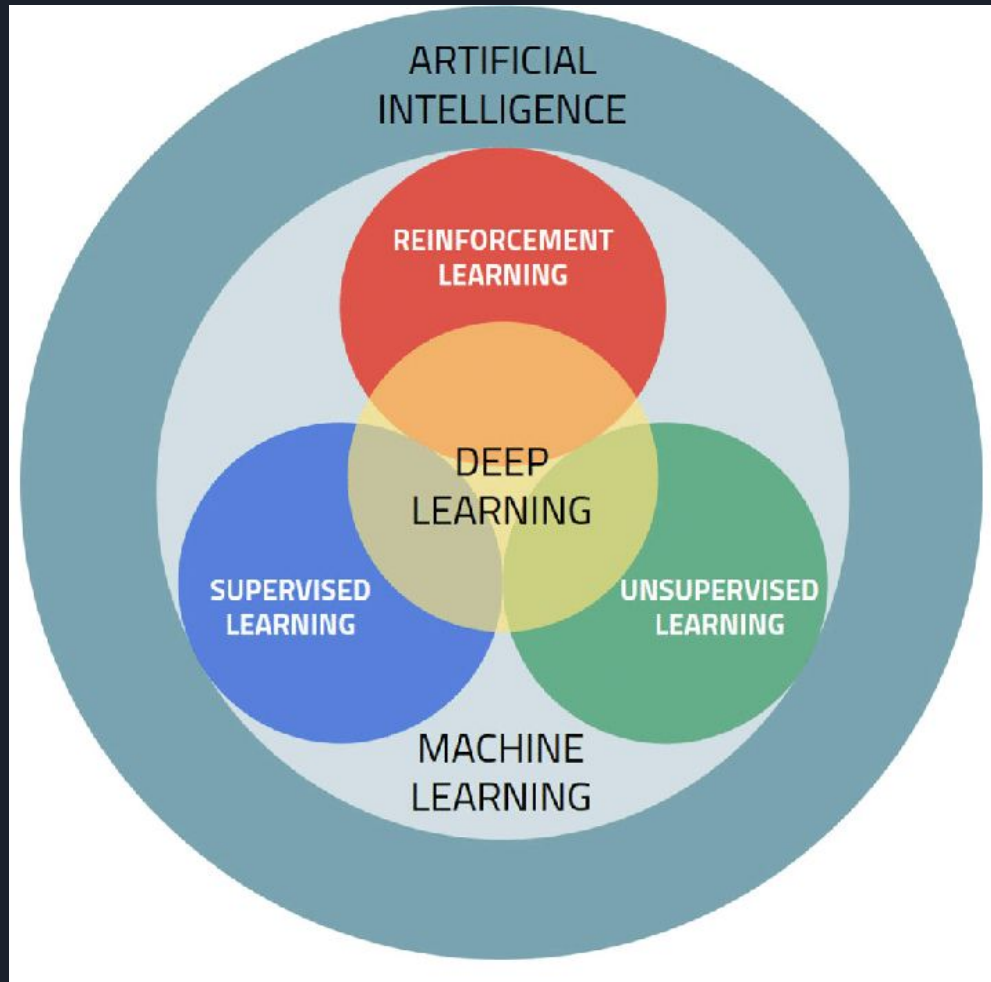
A program that can sense, reason,  
act, and adapt


## MACHINE LEARNING

Algorithms whose performance improve  
as they are exposed to more data over time

## DEEP LEARNING

Subset of machine learning in  
which multilayered neural  
networks learn from  
vast amounts of data

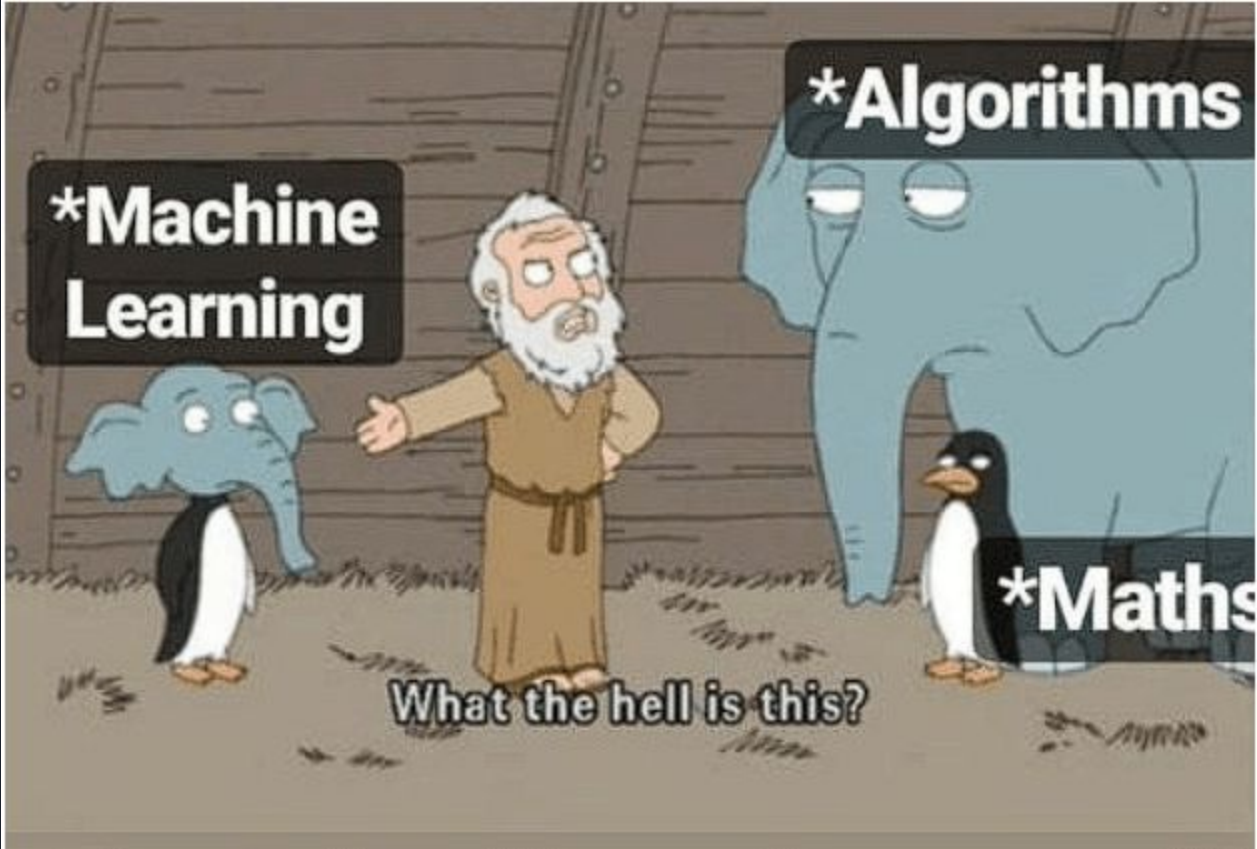




Machine Learning is a subset of AI where machines are trained to learn from data and make decisions or predictions without being explicitly programmed for specific tasks.

EG:SPAM





**\*Machine Learning**

**\*Algorithms**

**\*Maths**

What the hell is this?





## **Neural Networks:**

- Mimic the human brain to recognize patterns.
- Example: Image recognition in Facebook photo tagging.

## **Natural Language Processing (NLP):**

- Enables machines to understand and generate human language.
- Example: ChatGPT or Google Translate.

## **Computer Vision:**

- Helps machines interpret visual information.
- Example: Facial recognition in security systems.



# APPLICATIONS OF AI

- Disease diagnosis, drug discovery, and robotic surgeries.

Eg: AI detecting cancer in medical imaging.

- Personalized learning platforms like Duolingo.
- Fraud detection and stock market predictions.
- Autonomous vehicles (Tesla) and traffic management systems.
- Netflix recommendations and gaming (e.g., AI opponents in chess).



QUESTIONS???



THANKYOU