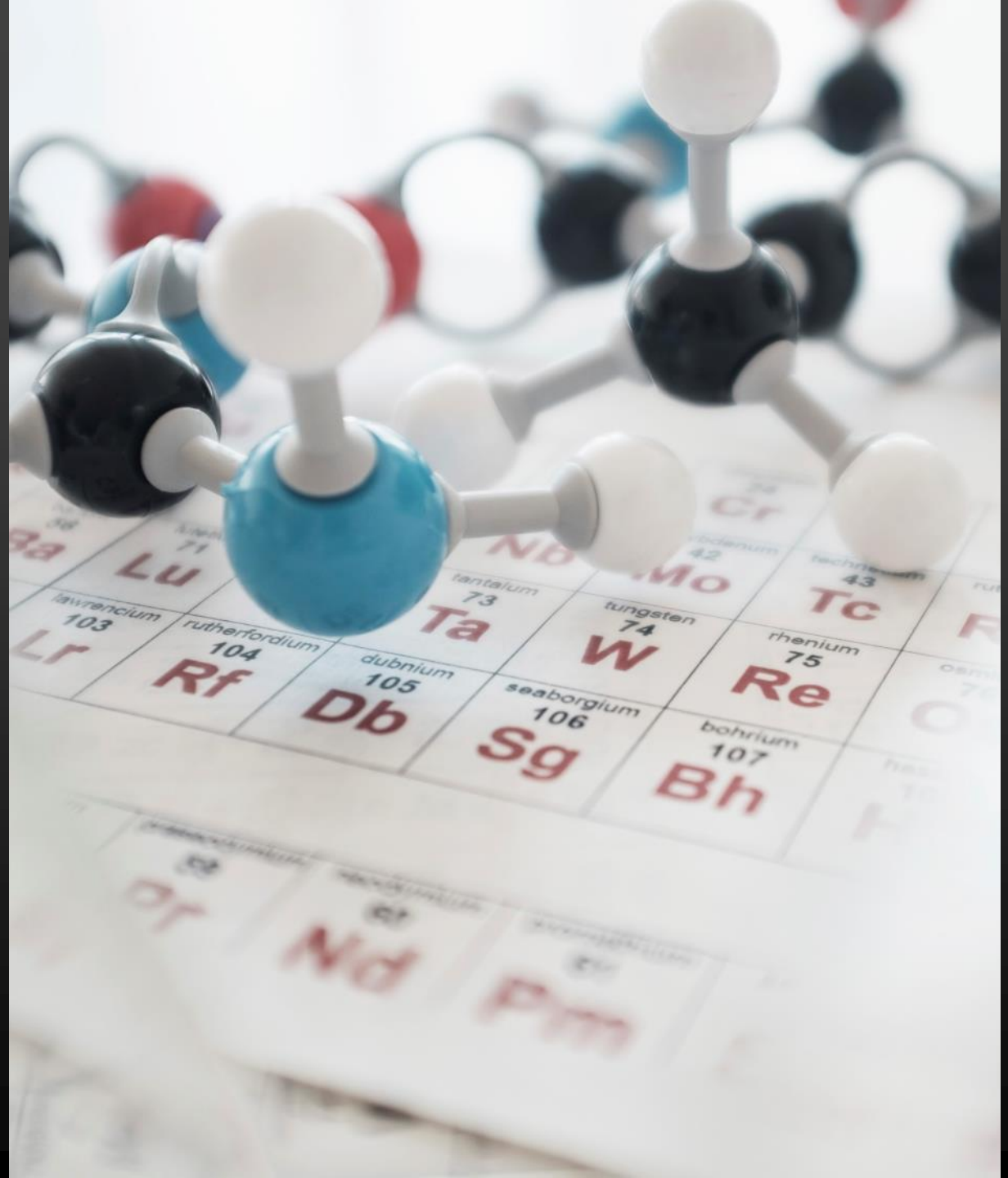
Artificial Intelligence

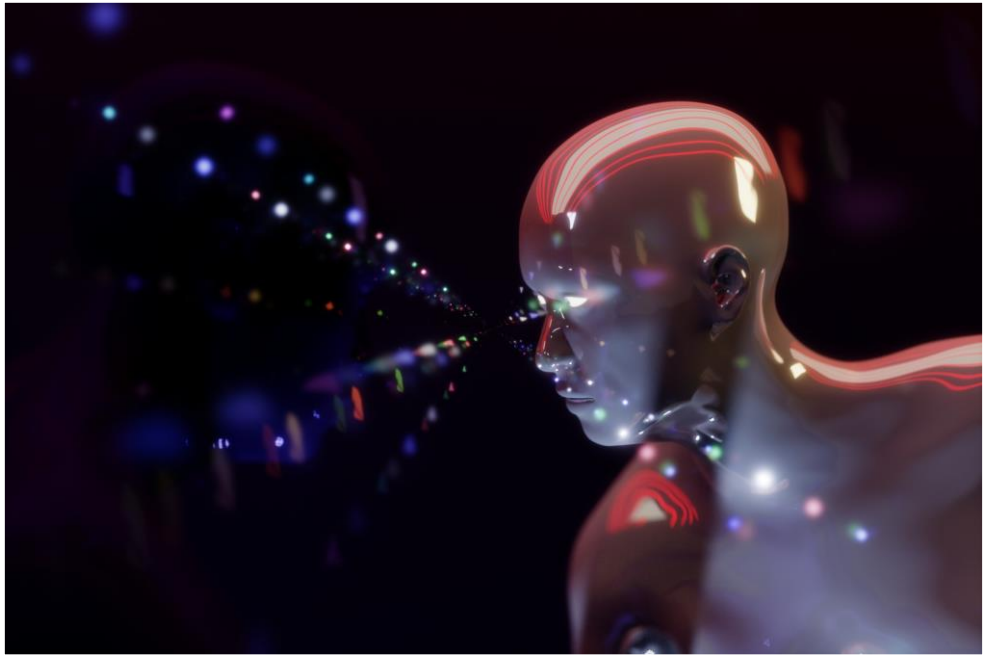
With Python



What is Artificial Intelligence (AI)?

According to the father of Artificial Intelligence, John McCarthy

→ *"The science and engineering of making intelligent machines, especially intelligent computer programs".*



- Artificial Intelligence is the ability to design intelligent machines or to develop self-learning software applications that imitate the traits of the human mind like reasoning, problem-solving, planning, optimal decision-making, sensory perceptions, etc.
- Artificial Intelligence is a way of **making a computer, a computer-controlled robot, or a software think intelligently**, in the similar manner the intelligent humans think.

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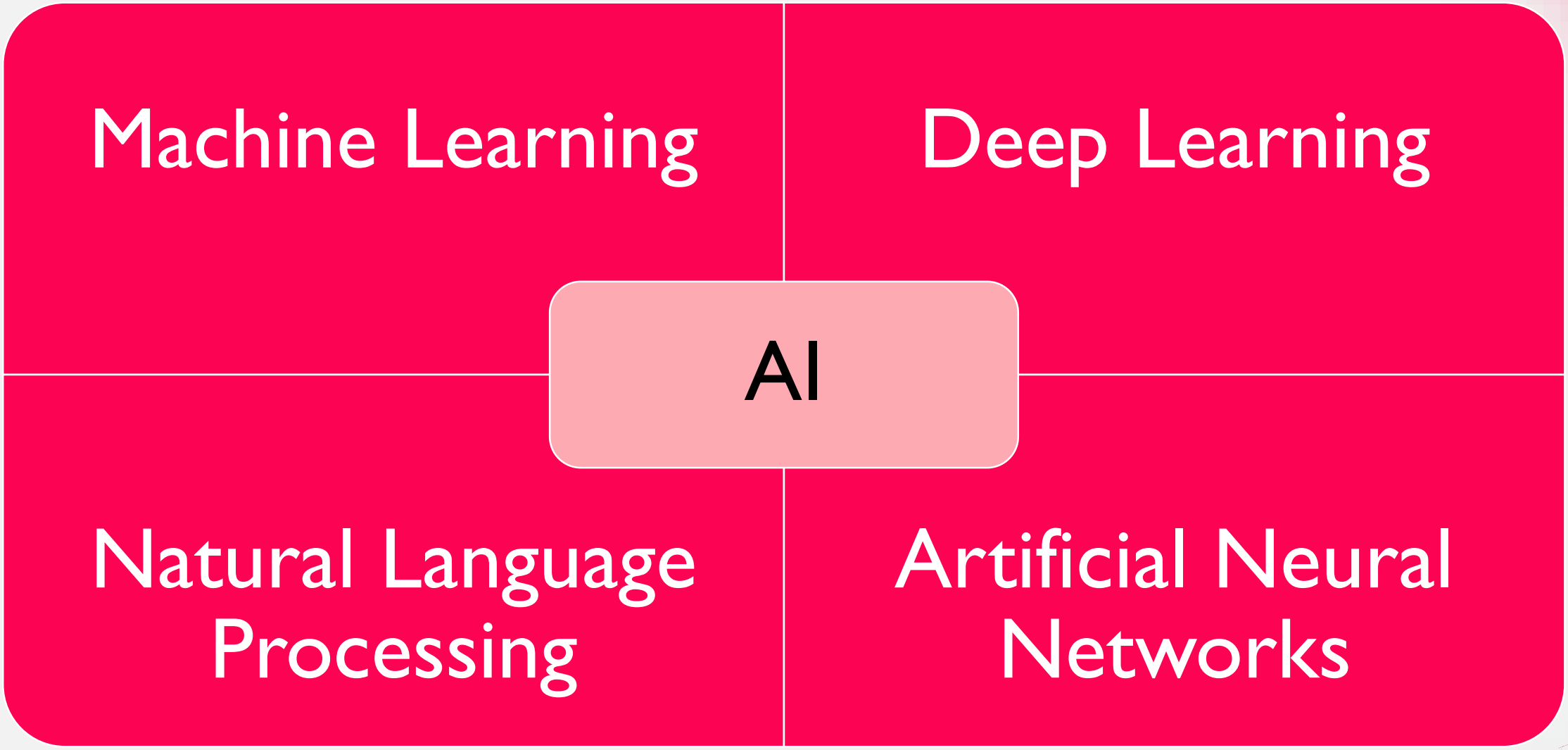
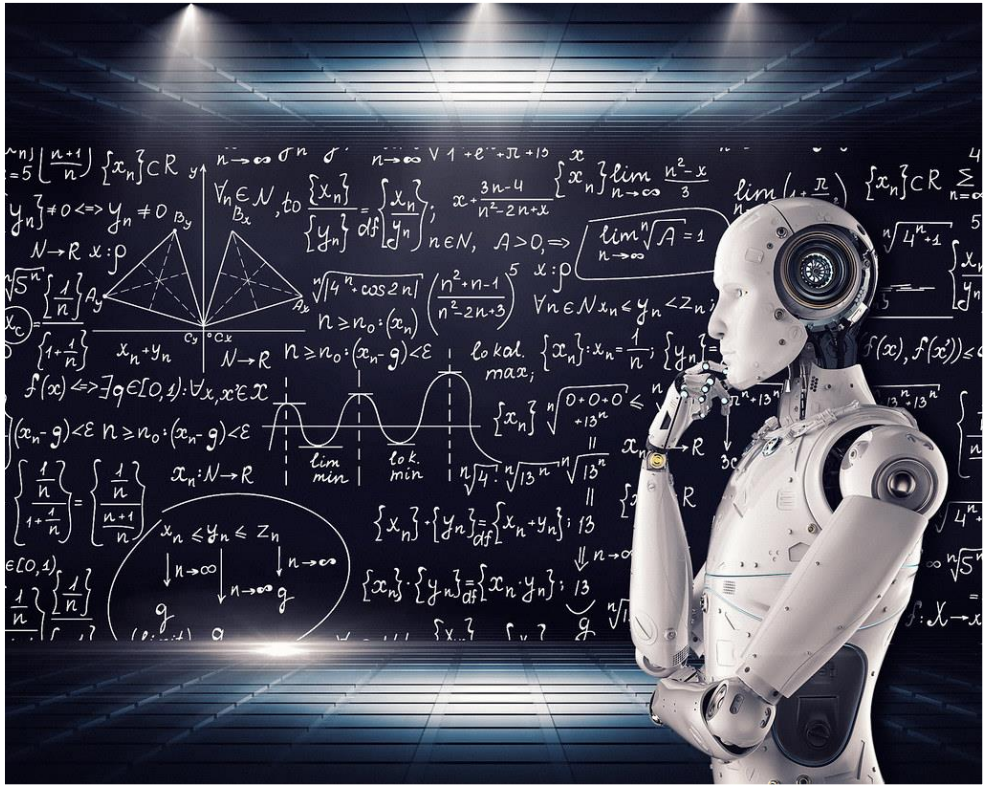

Machine Learning
Deep Learning
AI
Natural Language Processing
Artificial Neural Networks

AI Machines

Can Do

- Reasoning
- Learning
- Problem solving
- Perception



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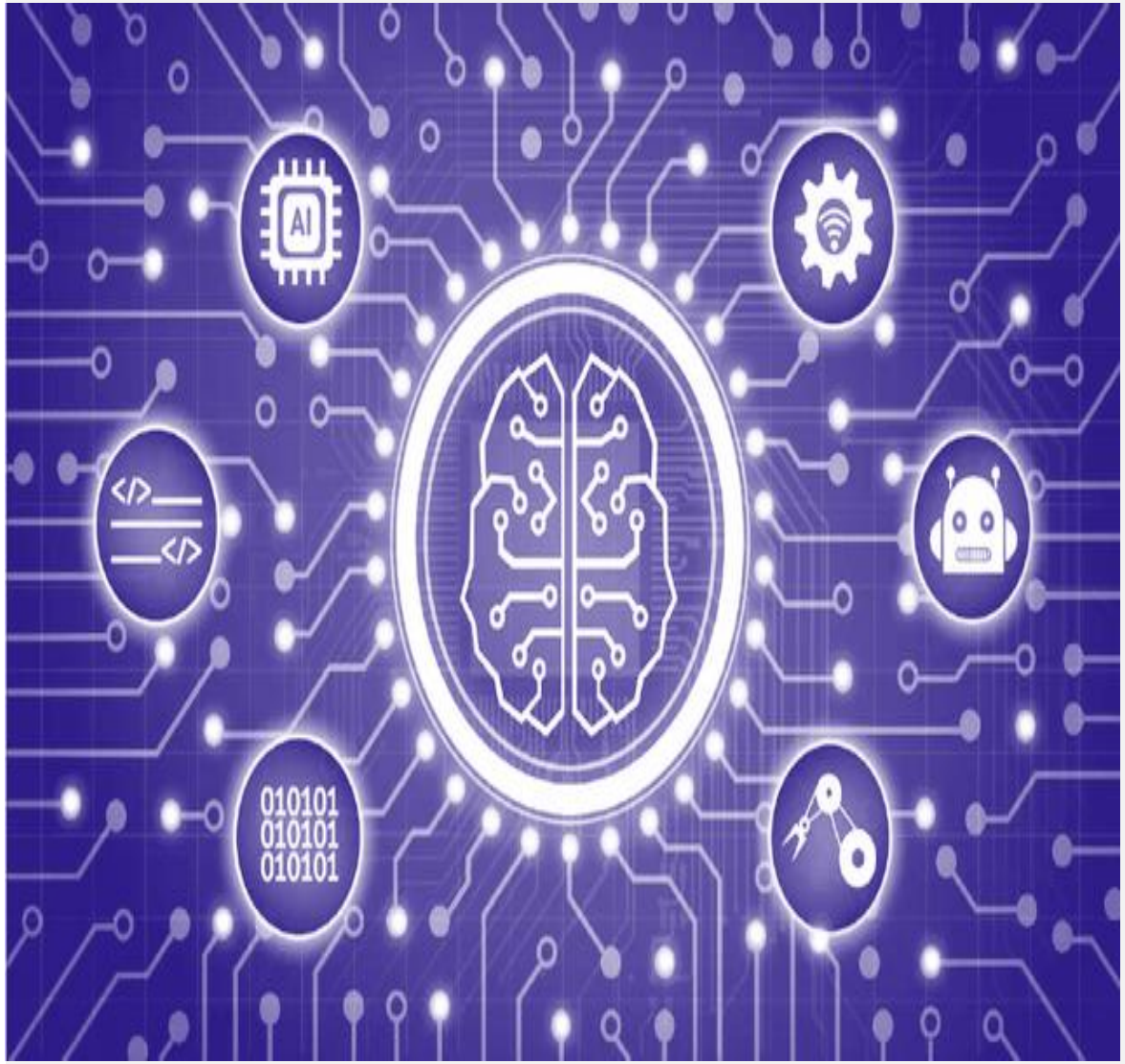

Historical development and foundation areas

of

ARTIFICIAL INTELLIGENCE

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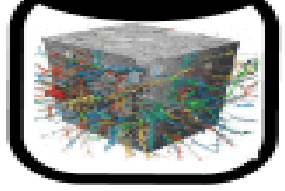
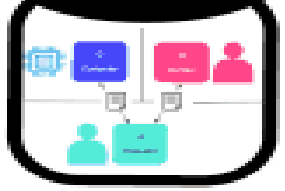
Historical Development

1943 — Evolution of Artificial neurons

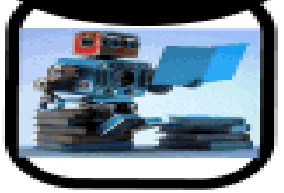


1950 — Turing Machine

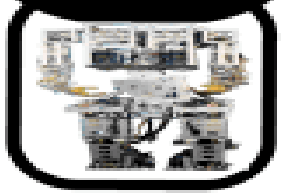


1956 — Birth of AI: Dartmouth Conference

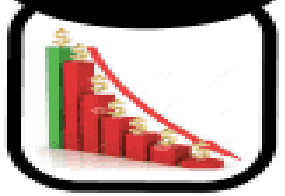
1966 — First Chatboat : ELIZA



1972 — First Intellgence Robot : WABOT -1



1974-1980 — First AI winer



1980 — Expert Ststem

1987-1993 — Second AI Winer

1997 — IBM Deep blue : first computer to beat a world chess champion

2002 — AI in Home: Roomba

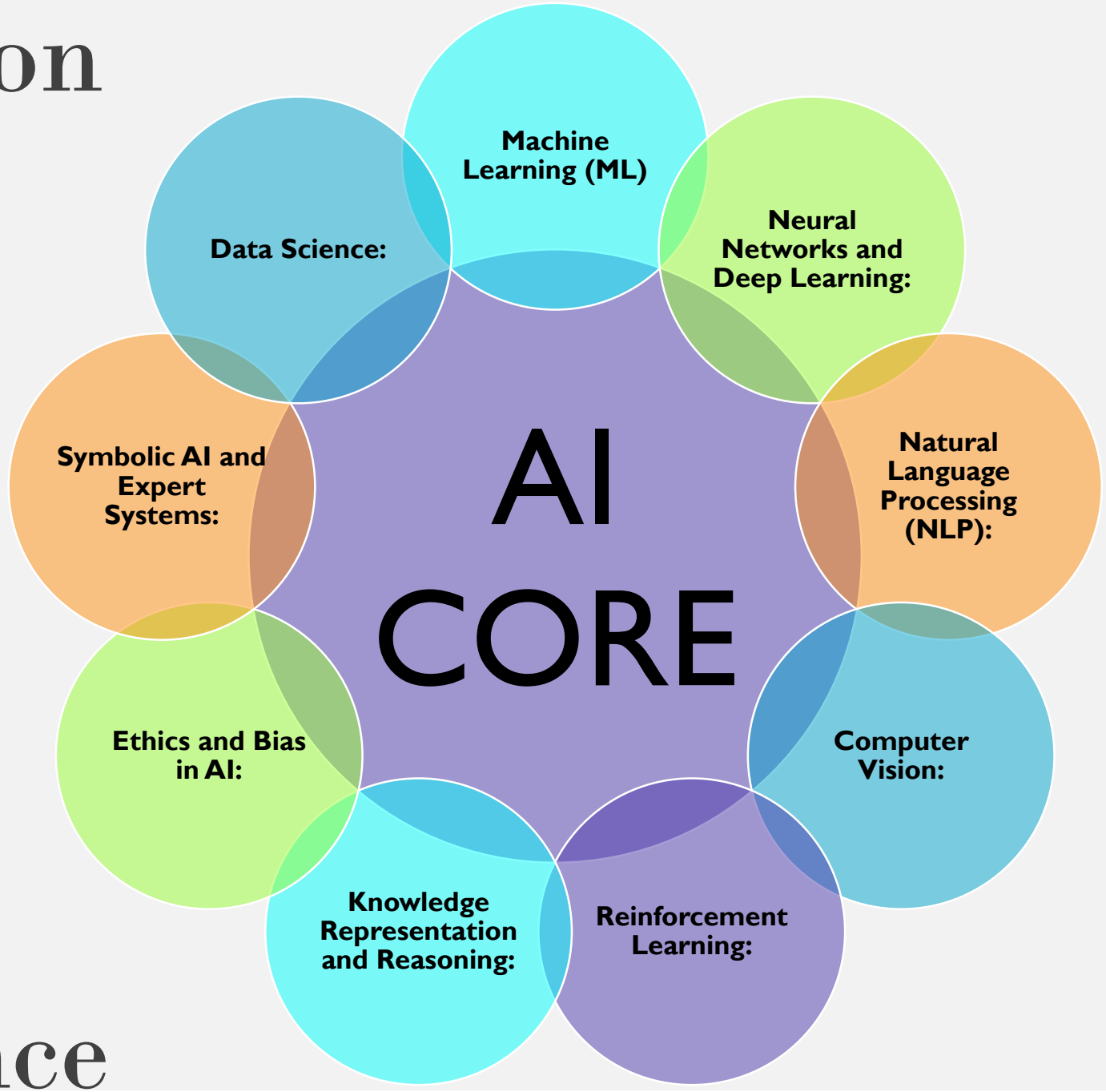
2011 — IBM s Watson : Wins a quiz show

2012 — Google now

2014 — Chatbot Eugene Goostman:Wines a "Turing test

2015 — Amazon Echo

Foundation Areas In Artificial Intelligence



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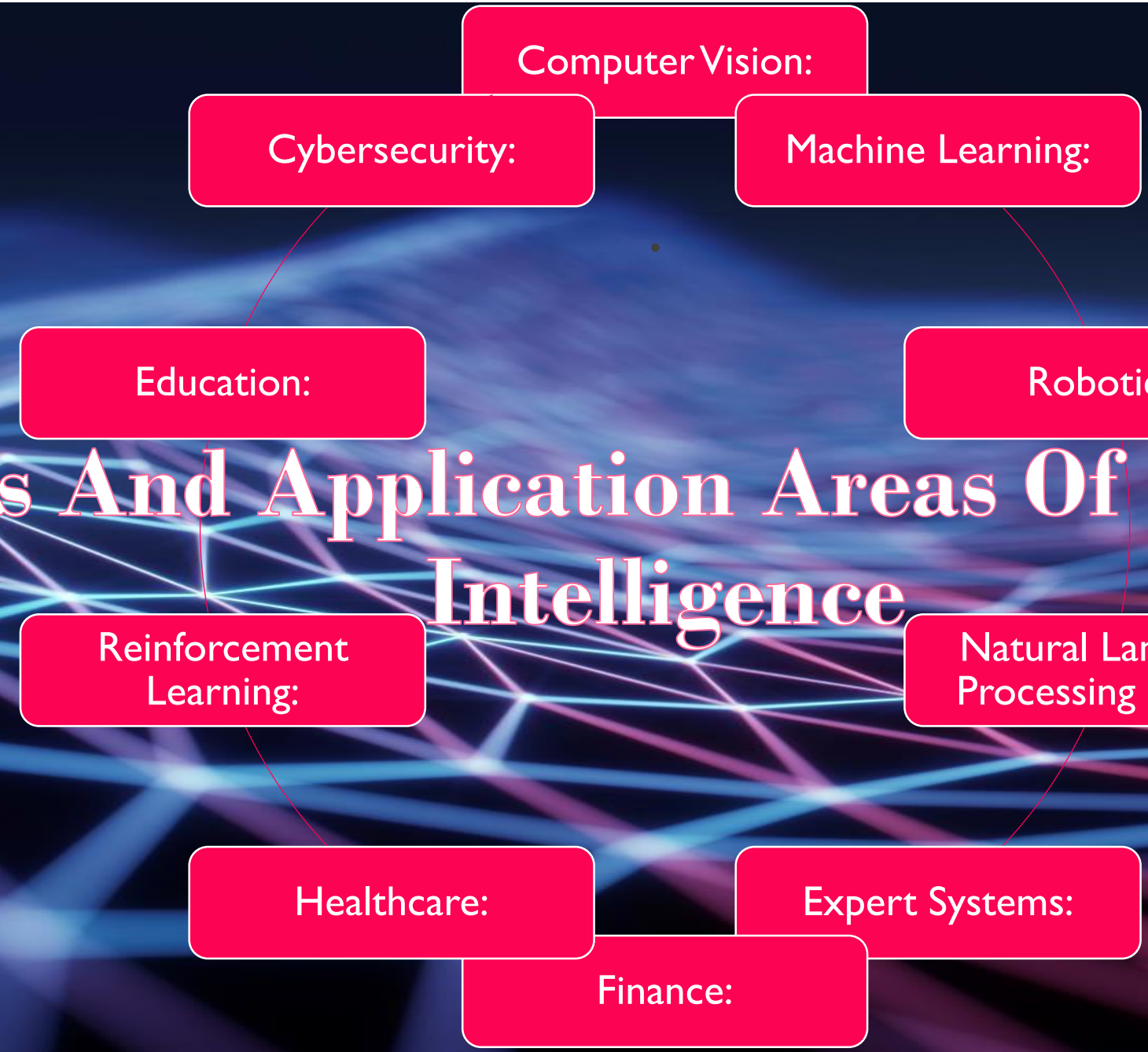
Tasks And Application Areas Of Artificial Intelligence



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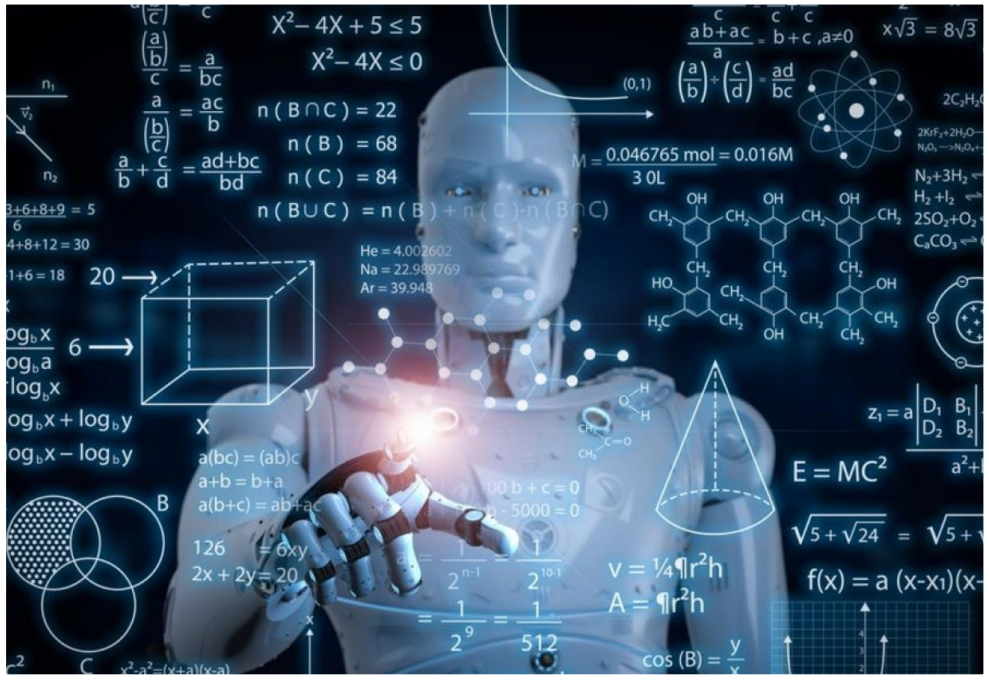
AI Around Us



Examples:-

- Chatbots such as ChatGPT, GPT-4, Claude, etc.
- Personalized recommendations on streaming services like Netflix,
- Spotify, YouTube, etc.
- Voice assistants like Siri, Alexa, and Google Assistant
- Fraud detection in banking and finance
- Social media algorithms that curate your feed
- Spam filters in email
- Predictive text on your smartphone keyboard
- Smart home systems that adjust to your preferences
- Virtual personal shopping assistants
- Medical diagnosis and treatment planning

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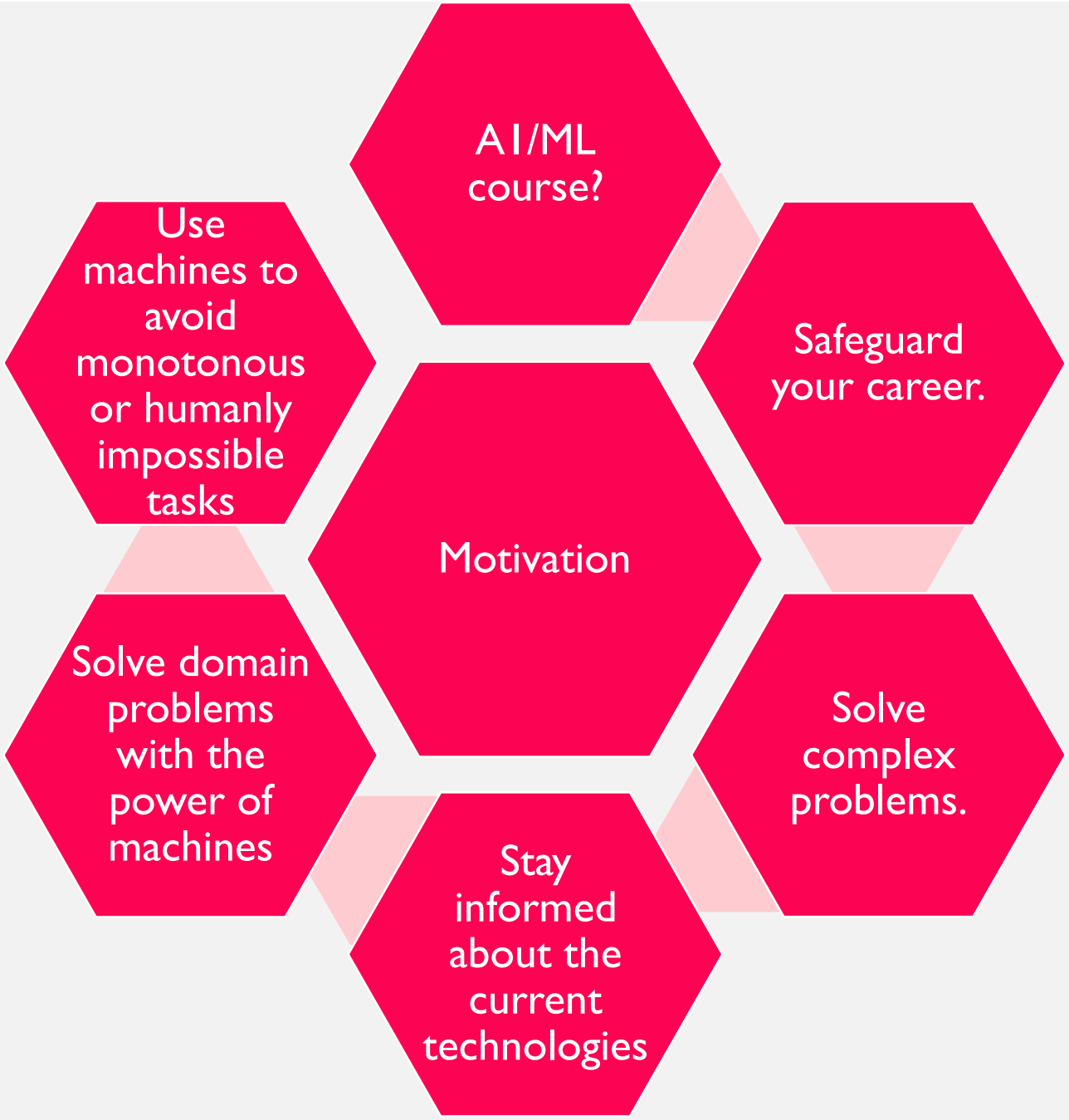
Why you shoul learn