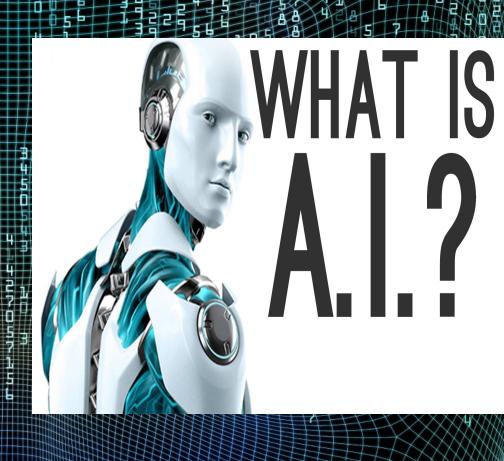
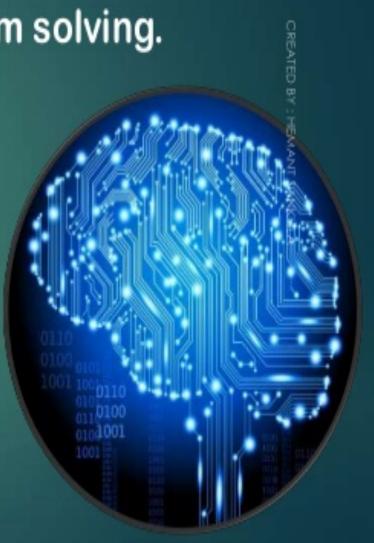


rtificial Intelligence is a way of making a. computer, a computer-controlled robot or a software think intelligently, in the similar manner the intelligent humans think.



Goals or fields of Al

- ✓ Deduction, reasoning, problem solving.
- ✓ Knowledge representation.
- ✓ Planning.
- ✓ Learning.
- ✓ Natural language processing.
- ✓ Motion and manipulation.
- ✓ Perception.
- ✓ Social intelligence.
- ✓ Creativity.
- ✓ General intelligence.



What Contributes to AI?

Artificial intelligence is a science and technology based on disciplines such as:

Computer science

Biology

Math's

Artificial Intelligence

Sociology

Neuron Science

Out of the following areas, one or multiple areas can contribute to build an intelligent system.

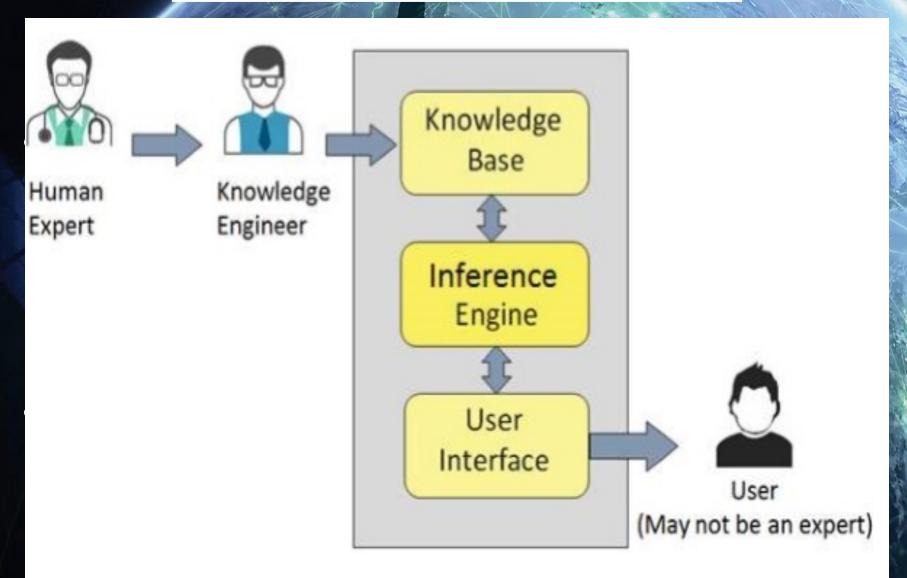
Philosophy

APPLICATIONS OF A

- Gaming
- Natural Language Processing
- Expert Systems
- Vision Systems
- Speech Recognition
- Intelligent Robots



Components of Expert Systems RESEARCH AREAS OF AT



2. Natural Language Processing

- Natural Language Processing (NLP) refers to Almethod of communicating with an intelligent systems using a natural language such as English.
- Examples: Google Now feature, speech recognition, Automatic voice output.

3. ARTIFICIAL NEURAL NETWORKS

Artificial neural networks is inspired from the natural neural network of human nervous system. It is composed of a large number of highly interconnected processing elements (neurones) working in unison to solve specific problems. ANNs, like people, learn by example.

Examples – Pattern recognition systems such as face recognition, tharacter recognition, handwriting recognition.





Foam detector

Adjust rinse length

Dosage evaluator

Load adjuster

Economical wash





















Automatic Braking System
Fuzzy Logic



Close

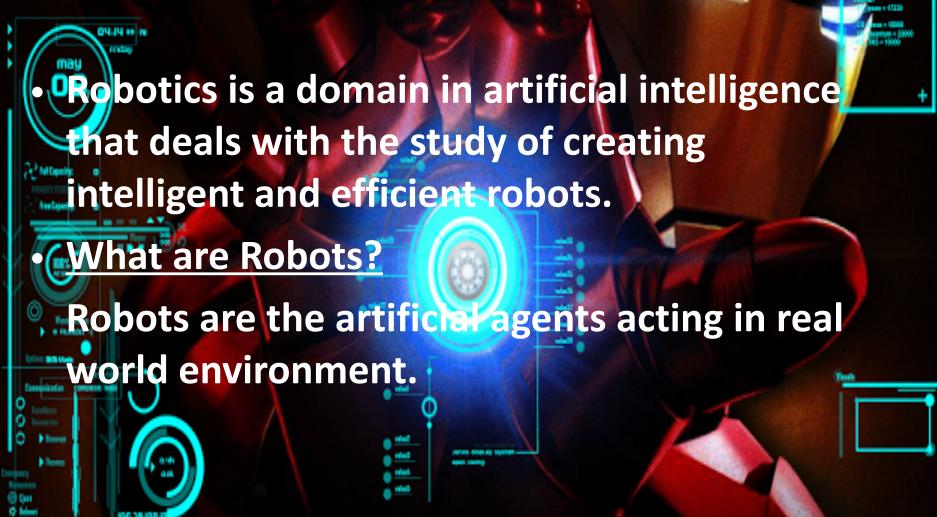
Far



Is car close?: 0-1 (Range of No to Yes)

Brakes: 0-1 (Range of Off to On)

5. Robotics



Objective

Robots are aimed at manipulating the objects by picking, moving, modifying objects thereby freeing manpower from doing repetitive functions.





ARTIFICIAL INTELLIGENCE-ISSUES

- There is an opinion among researchers and developers that AI could grow so immensely strong that it would be difficult for humans to control.
- Humans developed AI systems by introducing into them every possible intelligence they could, for which the humans themselves now seem threatened.
- Threat to Privacy

An AI program that recognizes speech and understands natural language is theoretically capable of understanding each conversation on e-mails and telephones.

Threat to Safety

The self-improving Al systems can become so mighty than humans that could be very difficult to stop from achieving their goals, which may lead to unintended consequences.



BBC: Stephen Hawking warns artificial intelligence could end mankind (Dec 2, 2014)

"He told the BBC: The development of full artificial intelligence could spell the end of the human race."

"It would take off on its own, and re-design itself at an ever increasing rate," he said. "Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded

CONCLUSION

 Artificial intelligence is increasingly being put to use in virtually every sector of the economy, from farming to education. This Project only scratches the surface of the many ways Al is generating substantial social and economic value, and transforming everyday life for the hetter. Giver the immense benefits that Al is all early of eng society—and its huge potential to do even more—it would be a serious mistake to take the foot off of the accelerator.