Artificial Intelligence:- AI is the study of

How to make computer do things which people do better. [machine + human Intelligence]

↳ AI Can Cause a machine to work as human.

↳ AI → Artificial [Man-Made]
     ↘ Intelligence [Power of thinking]

GOALS OF AI:
i) Replication of Human Intelligence.
ii) Solving problems —that require knowledge.
iii) Building a machine that Con do human Intelligence task. [CHESS, Proving theorem, automated car driving ...]

Reasons of Boost in AI:

↳ i) S/w or device Can be made to solve Real-time Problems.

ii) Creation of Virtual assistant [SIRI, CORTANA]
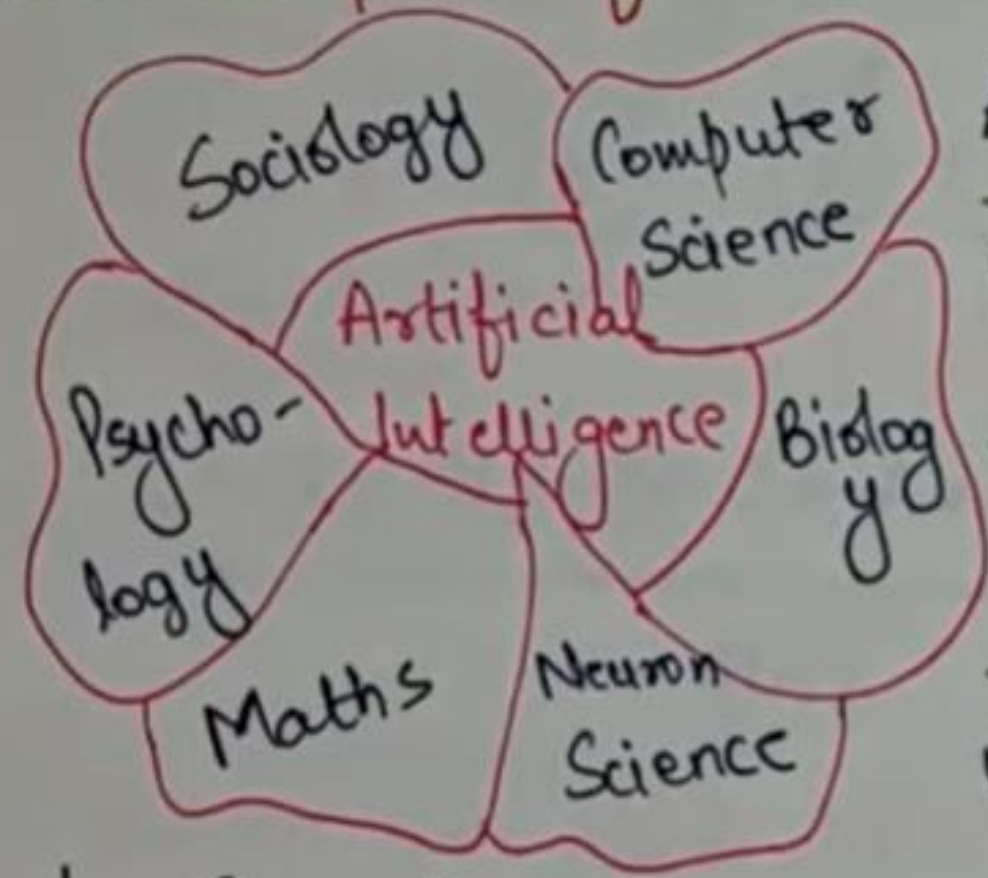
iii) Robots development. [Helps in dangerous env. cond"]

iv) New JoB opportunities.

Applications of AI:-

(1) **AI in Gaming**: Chess, Poker, tic-toe.
→ machine can think large no. of moves.

(2) **AI in NLP**: Natural Lang. Processing
→ Machine can understand human lang.

(3) **AI in Healthcare**: Fast diagonsis
→ Robotic Surgery.

(4) **AI in Finance**: Adaptive Intelligence.
→ automatic chatbots, algorithm trading.

(5) **AI in Data Security**: Helps in making data/appl" more secure.
→ AEG bot, AI2

(6) **Expert System**: Integration of s/w machine and special info" to provide reasoning & advise.

(7) **Computer Vision**: Understand the visual automatically by machine.

(8) **Speech Recognition**: Extract - the meaning of sentance by human talk. [slang removal, noise rem.

(9) **Robotics**:
Talk and → Erica and sophia behave like humans.

(10) **AI in e-Commerce**: Automatic recommendation of

AI is comprised of :-

Sociology, Computer Science, Artificial Intelligence, Biology, Psychology, Maths, Neuron Science

↳ Reasoning
↳ Learning
↳ Problem solving
↳ Language Understanding.

Advantages of AI

Accuracy ↑ & Error ↓

Fast Decision Making.

Reliability is more

usefulness in Risky Area.

Digital Assistant

Disadvantages of AI

COST ↑

Can't thing beyond the limits.

No feeling & emotions

more dependency on machines ↑.

No original thinking

Classification of AI:-

WEAK AI: Narrow AI Able to perform dedicated task with Intelligence. [Not concerned with How]

→ Can't perform beyond its field or limitations.

→ Example:- ⎰ Flying machine
⎱ Using logics
⎰ Apple SIRI
⎱ Playing chess

Evolutionary AI: It is the study and design of machines that Simulate Simple Creatures and attempt to evolve.

→ Example: Ants, Bees etc.

Strong AI: It is the study and design of machines that Simulate human mind to perform intelligent tasks.

→ i) Borrowing Ideas from psychology and neuroscience

→ ii) forgetting things, Genetics, Language.

Super AI!- Hypothetical Concept.
machine > Human.
[machine ←——→ machine]