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Artificial Intelligence 001

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Assignment 1

1)  Define in your own words: (a) intelligence, (b) artificial intelligence, (c) agent, (d) rationality, (e) logical reasoning.

a) Intelligence is a degree of how one can gain and apply the knowledge. It is a feature that one possess that can improve with education and experience. People often confuse intelligence with knowledge but they are quite different. Knowledge is simply information that can be gained from various sources but to understand and integrate the knowledge to our daily lives is determined the level of intelligence he/she has.

b) Artificial Intelligence is the intellectual feature of human being incorporated in machines. It refers to a machine being able to think and act like human. AI is a phenomenon on which artificial structures like computers acts on its own, based on the data and knowledge that has been fed to it.

c) Agent is a party that acts with the use of awareness and information. The objective of agent is to complete a certain goal that has been assigned to it.

d) Rationality can be defined as a perspective through which one can analyze the outcomes and can act in the right way based on the outcomes. It is an attribute that allows someone or something to act with reasoning and on logical basis.

e) Logical reasoning is the ability to recognize the better option out of the many by the input of critical thinking and act based on the decision to bring out the optimum output. It is a way of thinking in which knowledge and information based on a situation is applied in order to make a decision.

2) Is Artificial Intelligence a science, or is it engineering? Or neither or both? Explain.

Artificial Intelligence (AI) comprises of both science and engineering. It includes the science behind how a human brain works and integrates it with the help of engineering knowledge unto the machines. Like there are neurons in our brain, networks are present in AI that help collect, store and use the data from the storage just like our memory. Various scientific procedures and calculations are embedded into AI to make it function properly. However, only with the help of proper engineering, it is possible for AI to become perfect.

Science is study of nature and engineering is the art through which we build something new. In the case of AI, brain is studied and a similar machine is created out of that study. So it can be said that AI is mixture of both science and engineering because both science and engineering are fundamental aspects of AI.