

# **ROLE OF ARTIFICIAL INTELIGENCE IN FUTURE**

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Abstract - AI technology has long history which continuously changing and actively growing. It focuses on intelligent agents, which contains devices that become aware environment and based on which takes actions in order to maximize goal success chances. In this paper, we'll explain the fashionable AI basics and various representative applications of AI. In context of recent digitalized world, AI (AI) is that the property of machines, computer programs and systems to perform the intellectual and artistic functions of an individual, independently finds way to solve problems, Most artificial intelligence systems have the ability to learn, which allows people to improve their performance over time. The recent research on AI tools, including machine learning, deep learning and predictive analysis intended toward increasing the design, learning, reasoning, thinking and action taking ability Keywords predictive analysis, digitalized world

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# **1. INTRODUCTION**

Artificial intelligence (AI) are often defined because the simulation of human intellect processes by machines particularly computing system. The processes here include learning, self-correction, and reasoning. Knowledge of engineering has been skilled and used in AI. Engineering along side information technology enables thorough research that permits the machines to process information at complex levels. This allows the machine to try to the subtle task a bit like human. AI technology application is developing at a light-weight speed through the appliance of massive data which is about the platform for a high volume and velocity of knowledge that enables automation processes. AI is predicted to possess a robust effect on the longer term of technology thus making the human life simplified. The research focuses on the role of the AI in future technology. Achieving this may encompass examination of the real-life sectors where AI are going to be applied in future. Automated transport is one key area where AI will take a ground in future. Selfdriving cars will dominate the future transport industry. AI technology behind the self-driving car relies on sensor, connectivity and control algorithms. Sensor for effecting this is often available today however further modifications are applied to suit the system as an example forward collision warning, monitoring of blindspot and lane-keeping. Cameras, radar, and ultrasonic

sensors are going to be crucial for navigating the vehicles Connectivity, on the opposite hand, signifies that the cars have access to the prevailing or latest environmental conditions including weather, surface condition, maps and road infrastructure. The connectivity to the environment is necessary for avoiding hazardous conditions and anticipated braking. Finally, the software or the control algorithms will necessitate capturing of the data from the sensors and connectivity to make a wise decision on speed, route guidance, braking, and steering. This software, however, must be fault-tolerant to minimize failure that may result in fatal accidents.

# **1.1 History of Artificial intelligence (AI)**

technology is dominating the industries and AI houses though robots, the most aim of creating the robots are to extend the work efficiency within the shortest time possible while maintaining reliability. Robots exist already within the manufacturing, science, postal services, surgery just to say a couple of sectors. Further application of AI technology in robotics will saw tons of changes in homes and industries. There are possibilities that robots will replace human in manufacturing industries, BMW a car company, for instance, is currently testing robots to work with a human. Other companies like Toyota are following the suit. The future of robots could be devastation ethically and moral, only a couple of months have elapsed since a Spanish engineer modelled and created Samantha a sex doll and a robot capable of satisfying a man sexually. Ethically, this doll erodes the norms of the several communities across the planet that anticipate to marriages for sexual satisfaction. It is also expected that AI technology are going to be applied in soldiers to affect crime issues (Joh, 2). Automation of the safety forces will pose danger if the and employed technology is acquired by the incorrect people especially terrorists. The company in Japan has already succeeded in making robots programmed to develop their emotion to suit the human emotion that they're capable of reading. These robots are designed to be emotionally friendly to human thus keeping them company.



# 1.2 Evaluation of AI



# FIG.1 EVALUATION OF ARTIFICIAL INTELIGENCE

Artificial Intelligence (AI) is that the combination of varied technologies that give chance to robotics to know, learn, perceive or complete human activities on their own [2]. In this case, AI programs (robots) are built for a selected purpose like learning, acting and understating whereas humans intelligence is essentially concerned with various abilities of multitasking. In general, an Artificial Intelligence tool is majorly concerned with emphasizing robotics which portrays human behaviours. But however. AI may fail out at some points thanks to differences in human brain and computers. In brief, Artificial Intelligence has the potential to mimic human character or behaviours. The future of robots are going to be sophisticated bearing in mind that AI technology use remains advancing. Artificial Intelligence software or programs that are inserted into robots, computers, or other related systems which them necessary thinking ability, AI (AI) tools having the power to process huge amounts of data by computers can give those who control them and analyze all the information. Today, this considerably increases the threat which makes someone's ability to extract and analyse data in a massive way [5]. reflected because Recently, AI is the artificial representation of human brain which tries to simulate their learning process.

# 2. Human Intelligence Vs Artificial Intelligence (AI)

Artificial intelligence refers to the potential of computer controlled machines/robots towards performing tasks that that almost or similar to human beings. In this case, Artificial intelligence is used to develop various robots that have human intellectual characteristics, behaviors, learning from past experience, have abilities to sense, and abilities to making predications and determine meaning of certain situation first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

#### 3. Approaches of Artificial Intelligence (AI)

Here explore four different approaches that have historically defined the field of AI:

- 1. Thinking humanly
- 2. Thinking rationally
- 3.Acting humanly
- 4. Acting rationally

#### 3.1 Thinking humanly

Thinking humanly means trying to understand and model how the human mind works. There are (at least) two possible routes that humans use to find the answer to a question: We reason about it to find the answer. This is called "introspection". We conduct experiments to find the answer, drawing upon scientific techniques to conduct controlled experiments and measure change. The field of Cognitive Science focuses on modeling how people think.

#### 3.2 Thinking Rationally

Trying to understand how we actually think is one route to AI. But another approach is to model how how we should think. The "thinking rationally" approach to AI uses symbolic logic to capture the laws of rational thought as symbols that can be manipulated. Reasoning involves manipulating the symbols according to well-defined rules, kind of like algebra. The result is an idealized model of human reasoning. This approach is attractive to theoretists, i.e., modeling how humans should think and reason in an ideal world.

# 3.3 Acting humanly

It means acting like a person. The classic example of this is the "Turing test" (details on a later slide). – AI means thinking humanly, i.e., thinking like a person. The field of Cognitive Science delves into this topic, trying to model how humans think. The difference between "acting humanly" and "thinking humanly" is that the first is only concerned with the actions, the outcome or product of the human's thinking process; whereas the latter is concerned with modeling human thinking processes.

# 3.4 Thinking rationally

It means modeling thinking as a logical process, where conclusions are drawn based on some type of symbolic logic. – AI means acting rationally, i.e., performing actions that increase the value of the state of the agent or environment in which the agent is acting. For example, an agent that is playing a game will act rationally if it tries to



win the game. The first two ideas concern thought processes and reasoning, while the others deal with behavior. Norvig and Russell focus particularly on rational agents that act to achieve the best outcome, noting "all the skills needed for the Turing Test also allow an agent to act rationally. "artificial intelligence generally falls under two broad categories:

#### 3.4.1 Narrow AI

Sometimes referred to as "Weak AI," this kind of artificial intelligence operates within a limited context and is a simulation of human intelligence. Narrow AI is often focused on performing a single task extremely well and while these machines may seem intelligent, they are operating under far more constraints and limitations than even the most basic human intelligence.

#### 3.4.2 Artificial General Intelligence (AGI):

AGI, sometimes referred to as "Strong AI," is the kind of artificial intelligence we see in the movies, like the robots from West world or Data from Star Trek: The Next Generation. AGI is a machine with general intelligence and, much like a human being, it can apply that intelligence to solve any problem.

#### **4. CONCLUSIONS**

To conclude, the utilization of AI predicts tons of success to the longer term technology. With automation of transport sectors, accident frequencies and traffic jams are going to be cleared off in major cities in developed and developing nations. Also, cyber technology will saw the evolution of superhuman capable of solving complex engineering and scientific equations to come up with an amicable solution to challenges facing the globe. The aching global climate change menace are going to be addressed adequately scientifically. However, the challenge may additionally be realized when the AI technology replaces humanity socialization and economic productivity by robots. Selection of Features and their extraction process preprocessing techniques like segmentation, thresholding and thinning

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