Artificial Intelligence in 2017

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Abstract:-Artificial Intelligence is the science and engineering of making intelligent machines, especially intelligent computer programs[1]. Artificial Intelligence is becoming a popular field in computer science as it has enhanced the human life in many areas. Study in the area of artificial intelligence has given rise to the rapidly growing technology known as expert system. Application areas of Artificial Intelligence is having a huge impact on various fields of life as expert system is widely used these days to solve the complex problems in various areas as science, engineering, business, medicine, weather forecasting[2]. The areas employing the technology of Artificial Intelligence have seen an increase in the quality and efficiency. This paper examines artificial intelligence, its definition and its application in various fields.

Keywords:-Artificial Intelligence, Expert System, Technology of AI, Applications.

I. INTRODUCTION

Artificial Intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings [3]. It is claimed that artificial intelligence plays a very important role in development of intelligent machines and software. Application domains of AI include robotics, voice recognition, image recognition, natural language processing and expert system. The central problem of AI research includes reasoning, knowledge, planning, learning, natural language processing, perception and the ability to move and manipulate object. In artificial Intelligence, expert system is a computer system that emulates the decision making abilities of the human expert [4].

There are various new developing applications in artificial intelligence. The year 2017 lead to new innovations and innovative ideas.[5] This improvement may lead to advancements in various fields which would make the lives much simpler, smarter and easier.

II. ARTIFICIAL INTELLIGENCE AND ITS APPLICATIONS

Top companies across the world are using Artificial intelligence in the improvement of the day to day life. The world's most innovative companies like Google, IBM, BAIDU are processing with the artificial intelligence. This paper further describes on its applications.

A. Artificial Intelligence in Gaming

Artificial Intelligence in games are used in interpreting the behavior of other players or entities. The real goal of AI games is to simulate intelligent behavior and to provide believable challenges[6]. AI an play multiple roles in gaming and people's perception is that most of the games are computer controlled. But actually all the different roles are fulfilled by artificial intelligence.
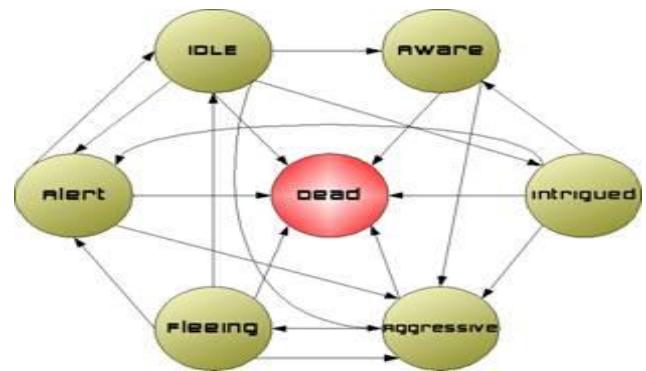

Fig:1 AI in Gaming.

B. Artificial Intelligence in Space

Scientists are able to predict the comet colliding only about a year before. But with the development of artificial intelligence, scientists of NASA frontier development laboratory are planning to speed up their space science. They also called various private companies like Intel, IBM to support their project [7].
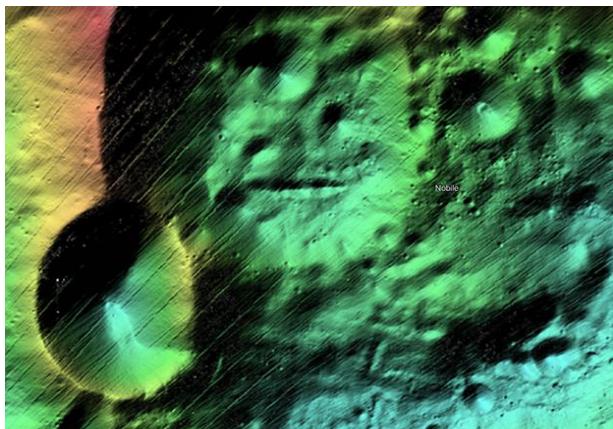
Fig. 2: AI in Space.

C. Artificial Intelligence in Medicine

Artificial Intelligence would play a key role in augmenting their ability to find the relevant data, to examine their history, prior reports in imaging, recent lab reports. Certain private companies like Philips, Agfa have already started integrating artificial intelligence into their medical imaging software system[8]. Philips added AI to Illumeo software which automatically pulls in related prior examination for radiology.
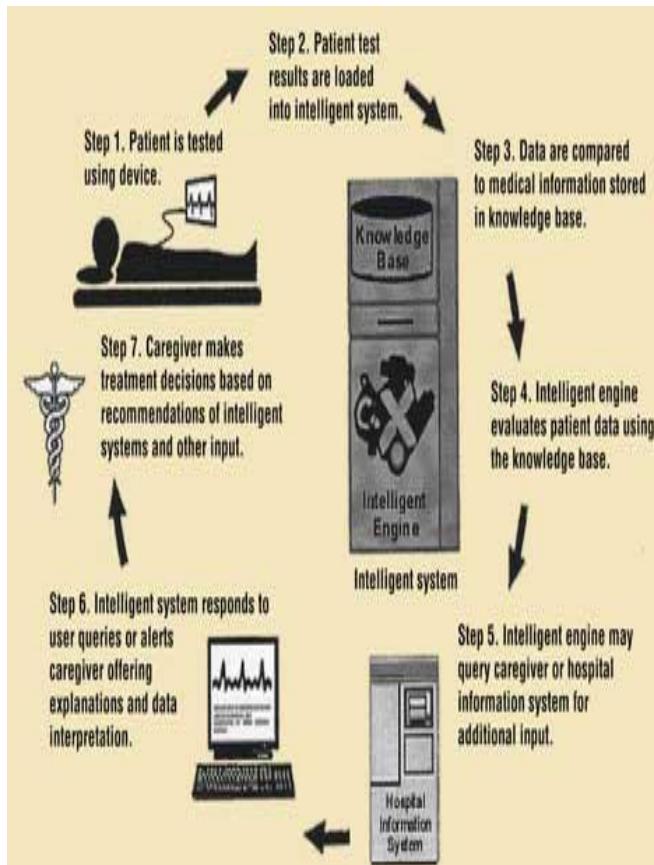
Fig. 3: AI in Medicine.

D. Artificial Intelligence in Robotics

Robots are manufactured as hardware. The connection between two robots is a software agent that reads the data from the sensor devices, decides what to do next and reacts accordingly [9]. Thus artificial intelligence also plays a vital role robotics. Amazon now has 45000 robots in its warehouse [10].

Fig. 4: AI in Robotics

III. CONCLUSIONS

AI is a centre of a new enterprise to build computational models of intelligence. AI programs can outperform human experts. Many tasks will have the opportunity of input from AI. Now the great challenge of AI is to find ways of how the software builders use this in their technology to make the live simpler and easier. Its challenging for the developers now to benefit AI for the future working world.

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