

## APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN EDUCATION

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### Abstract

In the modernized universe, one of the branches of computer science that is concerned in building smart machines and is also capable of performing tasks which typically require human intelligence is the one and only artificial intelligence shortly termed as AI. AI encompasses a broad range of interdisciplinary science along with multiple approaches and advancements in machine learning and deep learning, specifically in creating a virtual paradigm shift in tech industry. In fact, AI has become one of the important organs in human life to survive. AI proves that human beings have an immense capability in inventing new things. In education AI supports a lot to the students to choose a bright career through estimated predictions.

**Keywords:** Education, Learning, Paradigm, Inventions, Machines, Interdisciplinary, Career

### I. INTRODUCTION

An introduction to the concept and applications of artificial intelligence enlightens the significance of the present world and the stages set for the posterior conversations. Artificial Intelligence has set a trend in the history of technology and again proved another success that has been credited into the account of humans. This development added a key moment in the human mind and heart to understand its own intelligence and quest to invent furthermore. Based on the complexity of the task a system is able to perform, AI is categorized into four different types.

#### Types of Artificial Intelligence

**Reactive Machines:** Reactive Machines are the basic machines that make use of its intelligence only to perceive and react to the world in front of it. Memory cannot be stored in the reactive machines.

**Limited Memory:** In Limited Memory AI, the previous data can be stored and predicted. It can gather information and weigh potential decisions essentially it looks into the past for clues and predict what might come next.

**Theory of Mind:** The Theory of Mind understands the psychological premise and thoughts and emotions that affect the behaviour of one's self.

**Self-awareness:** In the self-awareness type of AI, theory of mind can be established. It possesses human level consciousness and understands its existence in the world.

#### Understanding of Artificial Intelligence

To understand the artificial intelligence we delve various dimensions, narrow AI, general AI and introduce the key components of AI with the concept of machine learning as well as deep learning. Artificial Intelligence in Astronomy can solve the problems that occur in the complex universe and helps in understanding the things like how the way it works,

origin etc. Artificial Intelligence in data security plays a vital role. The crucial part of every company and industry is the security of data because cyber-attacks are very rapidly growing in the digital world. AEG bot and AI2 platforms are used to protect the data firmly and more securely. Artificial intelligence in social media sites like Twitter, Facebook, and Snapchat was subscribed by many users and stores the data in an efficient manner. It identifies latest trends, hashtag and requirements of several users.

## **II. APPLICATIONS OF ARTIFICIAL INTELLIGENCE**

Artificial Intelligence is applied in many other fields including travel and transport, agriculture, e-commerce, education, audit, health, gaming and several other aspects in different modes. Transport and travel organizations demand in a wide range of AI for making travel related works like travel arrangements, hotel suggestions, best flights and routes to the users. Google maps are much helpful to the users to reach their destination without any problem. Many resources are required in agriculture like labor, money and time to get good results. Agriculture digitalization emerged in applying agriculture robotics, monitoring soil and crop predictive analysis and is much helpful for the farmers. E-Commerce business demands a competitive edge to the e-commerce companies. AI helps shoppers in providing necessary products with required size, color and others. AI even helps the elder and visionless people to accomplish their works in a very successful manner without disturbing others.

### **Artificial Intelligence in Education**

AI in education developed new solutions for effective teaching and learning and has given a new perspective of understanding to teachers, students, parents and even educational institutions also. AI is an ever evolving regulatory landscape that is set to affect many sectors and improves the confidence, trust of internal stake holders, external stake holders in audit. It includes piloted audit programs and a high level of governance including evaluation of algorithms, analysis of operations, technical and ethical aspects to focus on accurate results. AI is also applied in health sector by giving quick analysis of the patient reports and its execution. Moreover, AI suggests the patients what is the best remedy to overcome their problems related to health. Earlier children use to play in the sunlight and suffer from dehydration. Now AI acts as a friend to the children and play online games with them under the roof to pass their leisure time safely.

## **III. CONCLUSION**

The future scope of AI is limited to commercial and domestic purposes to reduce costs in the long run for a business. AI in future is expected to increase many number of start-ups indicating more opportunities in the field of jobs. AI enhanced productivity and efficiency by the way decreasing the potential for human mistakes. AI has disadvantages as well. The main drawback of AI is that the automated machines are replaced in place of human jobs. At this juncture, I would like to share that the complete consequences of AI development cannot yet be foreseen today but it seems likely that AI applications will be a top technology issue for the next coming years. AI based tools and technical services have a high potential to support throughout the life cycle of every individual.

## **ACKNOWLEDGEMENTS**

I express my sincere thanks to my mentor, Dr. Mathews Ma'am, for her continuous monitoring and preparing me up to the mark. I extend my wishes of thanks to my family members.

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