



INTERNATIONAL RESEARCH JOURNAL OF HUMANITIES AND INTERDISCIPLINARY STUDIES

(Peer-reviewed, Refereed, Indexed & Open Access Journal)

DOI : 03.2021-11278686

ISSN : 2582-8568

IMPACT FACTOR : 6.865 (SJIF 2023)

Artificial Intelligence: Current Developments and Applications

Ms. Nilophar Kasim Mullani

Assistant Professor,
Sanjay Ghodawat University Atigre,
Kolhapur (Maharashtra, India)
E-mail: mullaninilophar@gmail.com

Mrs. Veena Amit Mali

Assistant Professor,
Sanjay Ghodawat University Atigre,
Kolhapur (Maharashtra, India)
E-mail: veena.namde@gmail.com

DOI No. **03.2021-11278686** DOI Link :: <https://doi-ds.org/doi/10.2023-64517721/IRJHISIC2302055>

Abstract:

The current rapid pace at which technology progress is driving the change rate to accelerate. Deep learning (ML), a type of artificial intelligence (AI) that is commonly employed, is one of the fastest-growing sectors of technology. A lot has changed this year, and IT professionals have learned that their employment in the contactless society of the future won't be the same, even though technology advancements and new innovations are due to the COVID-19 pandemic and other upcoming technologies. being comparable. The article will discuss the numerous ML and artificial intelligence applications that are currently popular.

Keywords: Artificial intelligence, Machine learning, Deep Learning, Natural Language Processing.

1. INTRODUCTION:

Artificial intelligence and machine learning are now hot topics. Numerous sabots, such as bots for sport, media, climate, and other topics, have been introduced. There is lot of stuff going on in the ground right now. [1] Because of the digital transformation, more companies are relying on machine learning technologies to automate, streamline, and simplify their processes as working conditions, products, and services change. What then is the present condition and prospects for the future of the machine learning technology? [2] Artificial intelligence allows machines to replicate people's behavior. Machine learning, a branch of machine learning, allows a system should automatically learn from previous data without having to be expressly programmed.

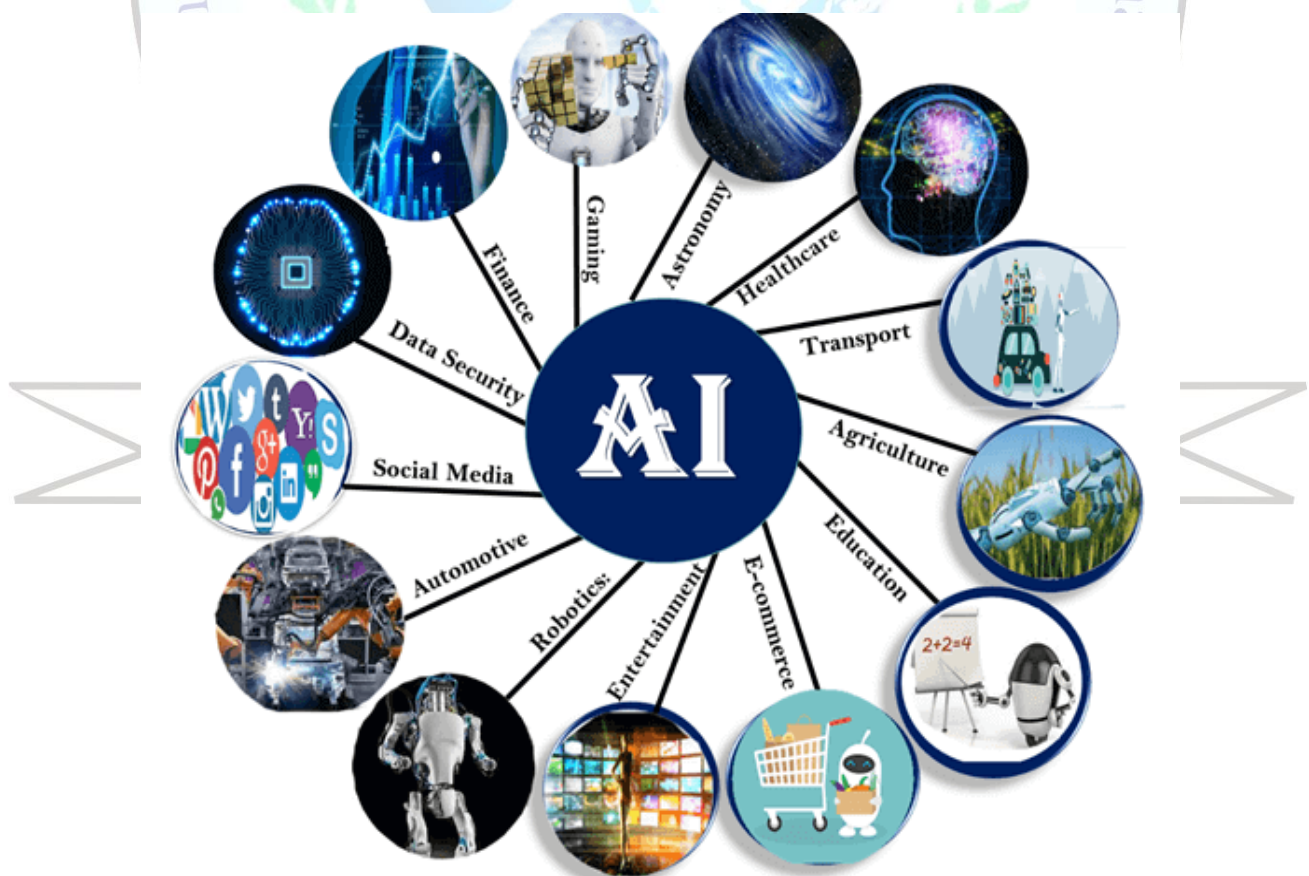
AI aims to solve complex problems by building intelligent, human-like computer systems. Artificial intelligence is the process of teaching a computer, robotic, or other object to reasoning

intelligently. The study of how the human brain thinks, learns, and makes decisions in order to solve issues is known as artificial intelligence (AI). The study also suggests sophisticated technology solutions. Machine learning is a branch of artificial intelligence (AI). Identifying data structure and integrating it into models that people can understand and apply are frequent aims of machine learning. Artificial awareness is the capability of a computer or computer-controlled robot to perform tasks that normally require human intelligence and decision-making (AI).

The commercialization of AI is accelerating as a consequence of company digitization, globalisation, expanding industry 4.0 chain architectures, and rising demand for information efficiency. Several nations are investing in AI and machine learning technology to boost productivity and meet demand in the global industrial sector. For instance, according to the UNCTAD research, Chinese AI companies increased their investment by US\$ 31.7 billion in 2018, accounting for almost 75% of the total US\$ 43.5 billion in investments made globally. Particularly in the fields of autonomous driving and healthcare, China is a global leader in the use of AI and ML technology.

2. Application of AI:

In today's society, artificial intelligence is used in many various ways. Since it can effectively resolve complex issues in numerous fields, including healthcare, entertainment, finance, and education, it is presently seen as indispensable. AI enhances the speed and simplicity of our everyday lives. The following are some sectors that artificial intelligence is used:



2.1. AI in Astronomy:

Artificial intelligence often is extremely effective at resolving a most difficult problems in the universe. Understanding the universe, including its origin and workings, can be aided by AI technology.

2.2 AI in Healthcare:

In the healthcare sector, artificial intelligence is being applied to diagnose patients more quickly and accurately than humans. AI can assist clinicians with diagnosis and report on the deterioration of a patient's condition such that medical care can be given to a patient before they are admitted to a hospital.

2.3. AI in Gaming:

Video games were capable to be using AI. Chess and other strategy games that necessitate a significant amount of location-based thinking from of the machine are accessible by AI machines.

2.4. AI in Finance:

Industry partnerships between finance and AI are ideal. Financial processes are being mechanized via the use of provides details, adaptive intelligence, algorithm trading, and machine learning.

2.5. AI in Data Security:

Data security must be a top priority for any business because cyberattacks are significantly rising in the digital age. AI can improve the safety and security of your data. It is possible to pinpoint software vulnerabilities and cyberattacks more accurately through using examples like the AEG bot and AI2 Platform.

2.6. AI in Social Media:

On social media sites such as Twitter, and Snapchat, there are billions of user accounts that must all be properly saved and managed. AI is capable of managing and organising enormous amounts of data. AI could go through a lot of data to identify the newest hashtags, trends, and user requirements.

2.7. AI in Travel & Transport:

The demand for AI in the travel and tourism sector is quickly rising. AI is capable of performing a variety of transport jobs, like making hotel accommodations and assisting customers on the top flights, hotels, and itineraries. For better and faster reaction times, the travel industry is using AI-powered catboats that can communicate with clients in a human-like manner.

2.8. AI in Automotive Industry:

Some automotive companies are utilising AI to provide their customers with virtual assistants in order to increase productivity. Tesla, for instance, unveiled Talbot, an intelligent virtual assistant.

Many industries are now working on self-driving cars, which could make your trip safer and more secure.

2.9. AI in Robotics:

Artificial intelligence is important in robotics. With the help of artificial intelligence, we may create intelligent robots that can perform work based on their own experiences rather than being pre-programmed, whereas one according robots are usually set to perform a variety of tedious jobs. Robots that resemble people are the best examples of artificial intelligence in robotics. Erica and Sophia, two intelligent humanoid robots that really can act and speak like people, were recently developed.

2.10. AI in Entertainment:

Some AI-based applications that integrate with media services such as Netflix or Amazon are now a part of our daily life. These services use ML/AI algorithms to suggest shows or programmes to programmers.

2.11. AI in Agriculture:

Agriculture needs a range of resources, labour, money, and time to produce the best outcomes. AI is becoming more common in agriculture nowadays as it becomes more digital. For robotic farming, crop monitoring, and predictive analysis, AI is employed in agriculture. Farmers can benefit greatly from AI in agriculture.

2.12. AI in E-commerce:

AI has given the e-commerce industry a competitive edge and is becoming ever more significant to the industry. AI helps shoppers find relevant products by suggesting brands, sizes, or colours.

2.13. AI in education:

AI has the ability to automate grading, providing the teacher more time to teach. Students can interact with an AI catboat teacher's aide. In the future, AI might offer students a convenient, on-demand personal virtual teaching service. [5]

CONCLUSION:

Machine intelligence and machine learning are both vibrant, never-ending fields. Combining both will result in outcomes that surpass expectations and expand the business's potential applications. To acquire the finest clothing, businesses must spend more in AI. putting them ahead of their competitors in intellect. Startup called Visionary develops artificial intelligence products for companies today. Our awards are backed by strong local expertise in machine learning, deep learning, and deep learning technologies.

REFERENCES

1. <https://visionary/trends-artificial-intelligence-machine-learning>.
2. <https://Datamation/artificial-intelligence/machine-learning-trends>
3. <https://businesswomen/it-management/top-ai-ml-trends-to-watch>
4. <https://Indianapolis/article/current-trend-and-applications-in-artificial-intelligence-and-machine-learning>
5. <https://www.javatpoint.com/application-of-ai>
6. <https://www.javatpoint.com/applications-of-machine-learning>
7. <https://www.researchgate.net/publication/364401772> A VISION -MACHINE LEARNING AND DEEP LEARNING APPLICATIONS
8. <https://www.researchgate.net/publication/364401607> USE OF ARTIFICIAL INTELLIGENCE IN EDUCATION \s[9]
9. <https://www.researchgate.net/publication/352507965> Application in Artificial Intelligence

