

①

① Introduction

② What is Artificial Intelligence?

③ How Artificial Intelligence is a Boon?

① Modifying existing education system and way of learning increasing learning outcomes

② Improving healthcare system through instant diagnosis and varieties of treatment options

③ Enhancing efficiency and quality of industries through autonomous manufacture

④ Providing instant customer support and enhancing service delivery by customer chat

⑤ Improving financial sector through detection of fraudulent transactions, risk assessment and optimization of trading strategies

⑥ Enhancing transportation system efficiency and safety through autonomous vehicles

⑦ Facilitating social media uses through personalization of contents, ads and social connection based on their behaviors and preferences

(b)

(b) Strengthening defence and security system of a country by military applications and cybersecurity

(c) Revolutionizing agriculture through soil nutrient assessment and weather forecasting

(d) Uplifting economy of many countries by providing employment to many people.

(4) How AI is a Bane?

(a) Increasing job replacement contributing to unemployment and poverty

(b) High initial cost is required for the development and deployment making it disadvantageous.

(5) CONCLUSION

From stone tools to robots, technology is advancing day by day. This advancement in science and technology has various positive and negative impacts on human lives. Artificial intelligence is one of such technological advancements that has profound positive impacts on human lives facilitating human in every walk of life. It is the simulation of human intelligence processes by machines. It is one of the most transformative technological innovations of the 21st century useful in various disciplines like health, education, finance and national security. Artificial intelligence is modifying existing education system and way of learning. It improves healthcare system helping in diagnosis and treatment. Similarly, it also enhances efficiency and quality of industries through automotive manufacturing. Moreover, Artificial intelligence enhances service delivery by providing instant customer support. Additionally, it improves transport system efficiency and safety through the introduction of autonomous vehicles. It also facilitates social media users through personalization of contents, ads and social connections based on their behaviors and preferences. Likewise, it strengthens defence and security system of a country by military applications and cybersecurity. In addition to this, artificial intelligence has revolutionized agriculture through soil nutrient deficiency assessment and weather forecasting. On the other hand, some argues that artificial intelligence is not good for human. It contributes

to unemployment through job replacement. Similarly, the high initial cost for AI development and deployment is making it disadvantageous. However, it is not the fact. Artificial Intelligence is a boon helping mankind in every walk of life.

Artificial intelligence is the emulation of human cognitive processes using machines, particularly computer systems, encompassing facets such as learning, reasoning, planning, problem-solving and knowledge representation. It involves the field of science and engineering dedicated to crafting machines that exhibit intelligence, particularly in areas like visual perception, speech recognition, decision-making, and multilingual translation, mimicking human capabilities. The concept of creating intelligent machines has ancient roots in myths and legends, such as the ancient Greek myth of Talos. However, the term "artificial intelligence" was first coined by John McCarthy. In recent years, the field has become essential to human survival. It has gained significant importance in various fields, including healthcare, transportation, communication and economy.

Artificial intelligence is modifying existing education system and methods of learning through different ways. Education systems are improving with application of artificial intelligence. AI-powered virtual reality and augmented reality provide best learning experiences, helping students understand complex concepts through

Visualization. Similarly, AI tool, ChatGPT, is helping students save their time by making understand a concept in a matter of seconds. It can solve problems related to any subject in few seconds with clear concept and great details helping students in assignment completion. Automated systems give instant feedback on assignments, helping students understand mistakes in real time. Based on these assessment and feedback, it is easier for teachers to teach those areas where students are weak. For instance, systems like Carnegie Learning and MATHia provide real-time feedback and tailored assistance to students. All this is the fruits of artificial intelligence. Artificial intelligence is making education system more advanced and effective through various contribution.

Similarly, artificial intelligence is improving healthcare system by making diagnosis fast and providing a varieties of treatment options. Artificial intelligence algorithms analyze medical images such as x-rays, MRIs and CT scans to detect anomalies with high accuracy and speed. Various AI systems and tools provide quick and accurate diagnosis by analysing tissue samples and vast amount of medical data. For instance, in Japan, Watson correctly diagnosed a rare form of leukemia within 10 minutes by comparing patient's genetic data with vast database of medical literature. Moreover, AI-powered Clinical Decision Support Systems provide clinician with evidence-based treatment options improving treatment

④  
outcomes by 20% by offering personalised recommendations based on patient data. It also increases treatment varieties by accelerating the drug discovery process. Robotics and AI guide surgeons perform complex surgeries with enhanced precision and outcomes. For instance, the Da Vinci Surgical system uses AI to assist surgeons in minimally invasive surgeries, reducing recovery time and complications. Enhanced diagnosis and better treatment options are possible due to artificial intelligence. Thus, artificial intelligence is beneficial to human as it improves healthcare system through speedy diagnosis and better treatment options.

Moreover, artificial intelligence is boon as it enhances efficiency and quality of industries by optimising manufacturing process. The goals of manufacturing process optimization include reducing errors and waste, lowering energy use, reducing downtime and increasing output. AI powered predictive maintenance systems predict equipment failure before they occur reducing unplanned downtime. Similarly AI systems use machine vision to inspect product for defects at higher accuracy and speed than human inspectors reducing defects. This results in lesser loss incurred due to defective products.

AI system optimize energy usage in manufacturing process, reducing energy consumption and costs. This also leads to less environmental pollution. AI driven robots and automation systems handle repetitive tasks with precision resulting in increased productivity and reduced labour costs. The Coca-Cola Company

uses Robotic Process Automation to automate data entry and orders processing, resulting in a 40% increase in productivity. Artificial intelligence is contributing to the enhanced efficiency and quality of industries.

Therefore, artificial intelligence is boon as it is enhancing efficiency and quality of industries.

In addition to this, artificial intelligence provides instant customer support and enhances service delivery by customer chatbots contributing to human welfare. A chatbot is a software application designed to mimic human conversation through text or voice interaction. It allows businesses to connect with customers in a personal way without the expense of human representative. Many issues or questions of the customer are addressed and answered without

any significant delay. It has been used by many companies enhancing their service delivery. AI chatbots can handle multiple queries simultaneously, ensuring customer support services can scale efficiently during peak times without compromising on response quality. It is

cost effective for businesses. According to a report by Juniper Research, consumer retail spend over chatbots will reach \$142 billion by 2024. This is all due to AI that

companies provide instant customer support. Hence, artificial intelligence contributes to human welfare by providing customer support and enhanced service delivery.

likewise, artificial intelligence improves financial sector through detection of

6

fraudulent transactions, risk assessment and optimisation of trading strategies benefiting mankind. This is done using various AI algorithms and models. AI algorithms can analyse large datasets to identify unusual patterns or anomalies that may indicate fraudulent activity. By studying user behaviours and transaction history, AI monitors transaction in real-time by detecting deviation from typical pattern. Similarly, AI models use historical data to predict future risks, thereby helping financial institutions to make informed decisions and prepare for adverse conditions. AI-driven algorithms can execute trades at optimal times based on market conditions, historical data and predictive analytics. It can analyse news articles, social media posts, and other sources to gauge market sentiment and inform trading strategies. For instance, Mastercard's Decision Intelligence uses AI to analyse transactions data and enhanced fraud detection capabilities allowing banks to assess suspicious transactions on its network. Therefore, artificial intelligence is beneficial as it improves financial sector through detection of fraudulent transactions, risk assessment and optimizing trading strategies.

Additionally, artificial intelligence enhances transportation system efficiency and safety by introducing autonomous vehicles making it easier for human to travel and transport goods. Autonomous vehicles employ AI to interpret sensor data and make real-time driving decision.



operating without a human. AI algorithms analyze real-time traffic data, road conditions, and historical patterns to determine the most efficient routes, reducing travel time and fuel consumption. This makes transportation efficient. AI powered sensors and cameras detect obstacles, pedestrians and other vehicles, allowing autonomous vehicles to take evasive actions to prevent collisions. This also helps in enabling proactive safety measures thereby increasing safety of transportation. Image recognition algorithm installed in these vehicles intercepts and responds to visual data, such as traffic signals, lane markings and obstacles enhancing efficiency and safety of transportation. Tesla Autopilot uses a combination of cameras, ultrasonic sensors, and radar to navigate and ensure safety. Thus, artificial intelligence is advantageous for humans as it enhances efficiency and safety of transportation through autonomous vehicles.

In the same way, artificial intelligence is a boon because it facilitates social media users by personalizing contents, ads and social connection based on the behaviors and preferences of the users. Social media are interactive technologies that facilitate the creation, sharing and aggregation of content amongst virtual communities and networks. AI algorithms analyze social media user behavior, such as search history, clicks and viewing time, to recommend contents. This saves user time and energy. Similarly, AI processes user data to deliver ads that match

individual preferences and purchasing behavior. This helps users buy products of their choice and purchasing capacity. AI also helps users find groups and communities that match their interests. For instance, Facebook uses AI to recommend groups, helping users to connect with right minded people and enjoy using it. So, artificial intelligence facilitates social media users through personalization of contents, ads and social connections based on their behaviors and preferences and is a boon.

Furthermore, artificial intelligence is useful as it strengthens defence and security of a country by military applications and cybersecurity. Defence and security is important for a country to survive. Many countries have employed AI in their defence and security system thereby strengthening it.

AI powered drones and unmanned ground vehicles can perform surveillance, reconnaissance, and target strikes with high precision. AI algorithms analyze vast amounts of data from satellite imagery, signal intelligence, and social media to identify threats and provide actionable insights. Moreover, AI predicts when military equipment is likely to fail, allowing for proactive maintenance and reducing downtime.

Also, AI detects and mitigates cyber threats faster than traditional methods by analyzing network traffic and identifying anomalies.

The U.S. military's MQ-9 Reaper drone uses AI for real-time decision making and target identification. Therefore, artificial intelligence strengthens defence and security of a

country by military applications and cybersecurity. Besides, artificial intelligence has revolutionized agriculture through soil nutrient deficiency assessment and weather forecasting helping in fight against poverty and food insecurity. Agriculture is the main source of income of many countries contributing to their economy. Advanced sensors equipped with AI algorithms analyze soil parameters such as moisture, pH, nutrient levels and temperature. This data related to soil health helps farmers make informed decisions about irrigation and fertilization because every crop and seed has their unique optimum fertilization requirements. AI models analyze historical weather data and current atmospheric conditions to predict weather pattern allowing farmers to take preventive measures to prevent crop damage resulting in high yields. Precision agriculture enabled by AI can increase crop yields by 20-30%, according to a report by McKinsey and Company. Such revolution in agriculture is possible only due to AI. Hence, artificial intelligence has revolutionized agriculture through soil parameters assessment and weather forecasting benefiting many farmers. Last but not the least, artificial intelligence is good for it is uplifting economy of many countries by providing employment to their citizens. In this technological era, advancement in technology, specially AI, is necessary for survival and global competition. AI development and deployment create jobs for data scientists, AI researchers, machine

learning engineers, lawyers and AI ethicists. These roles are necessary for designing, training, and maintaining AI system. The need for AI skills encourages educational institutions to offer specialized courses, leading to job opportunities in teaching and training. AI can be employed in various fields and sectors creating jobs for AI specialist for running it. All this leads to economic uplift of a country. According to PricewaterhouseCoopers, AI could contribute up to USD 15.7 trillion to the global economy by 2030, boosting global GDP by up to 14%. Thus, artificial intelligence is uplifting the economy of many countries by providing employment to their citizens thereby benefiting humans.

However, some argue that artificial intelligence is not a boon as it has resulted in increased job replacement leading to unemployment and poverty. AI has replaced human beings as laborers with machines in repetitive and manual tasks.

AI is reducing need for human agents. AI is contributing to job polarization where middle-skill jobs are disappearing. Drivers are affected by AI-driven autonomous vehicles. This leads to increase unemployment and poverty. However, this is not true as AI has been contributing to economic growth of many countries by providing jobs helping to fight unemployment and poverty. According to World Economic Forum, AI is expected to create 97 million new jobs by 2025. This report shows that how AI is helping to fight unemployment and poverty through creation of such huge

amount of jobs. Hence, AI is creating jobs and employment opportunities for the people.

Moreover, artificial intelligent deployment and development has high initial cost making it disadvantageous. This initial cost is a barrier for many countries to get benefits from AI technology. This affects smaller businesses or organisations with limited budget as hiring skilled data scientists and engineers and building infrastructure is very costly. However, this is far from reality as many AI tools and frameworks are available for free or at low cost such as TensorFlow, PyTorch etc. There are certain platforms, like cloud computing, that provide AI services on a pay-as-you-go basis, reducing the need for heavy upfront investment in hardware and infrastructure. This shows that the initial cost of AI is not high and is not a barrier to its deployment. Hence, artificial intelligence is not disadvantageous due to its high initial cost as it has low initial cost and is a boon for human beings.

To conclude, it can be said that artificial intelligence is advantageous in many ways as it influences every sphere of human life. Many opine that AI is not advantageous as it has resulted in job replacement increasing unemployment and poverty. Similarly, the high initial cost of AI deployment and development is making it disadvantageous. However, it is not true as AI has resulted in many jobs creation, and is cost effective. AI is modifying

existing system of education and way of learning improving learning outcomes. AI improve healthcare system through instant diagnosis and wider treatment options. Similarly, AI is enhancing efficiency and quality of industries through automotive manufacture. Besides, AI provides instant customer support and fast service delivery by customer chatbots. In addition to this, AI enhances transportation system efficiency and safety through the introduction of autonomous vehicles. Moreover, AI strengthens defence and security of a country by military applications and cybersecurity. Furthermore, AI is revolutionizing agriculture through soil deficiency assessment and weather forecasting. AI is increasingly influencing human day-to-day affairs. Like every other technological advancement and innovation, AI is also benefiting mankind, making their lives easy and comfortable. Technological advancement is always meant for the welfare of human. Avoiding its misuse, every innovation can bring ease and prosperity to human lives.