

ENGLISH ESSAY

"ARTIFICIAL INTELLIGENCE IS NOT ALL EVIL -  
IT CAN PROMOTE SOCIAL GOOD TOO."

Outline:I - Introduction:

- (i) - Definition of AI - Artificial Intelligence.
- (ii) - Thesis statement: Artificial intelligence has the potential to promote social good in healthcare, education <sup>and</sup> industrial domain sectors. Besides its perceived negative aspects, the applications of artificial intelligence are endless.

II - Main Body:i - AI in health care:

- 1- Personalized treatment and medicine precision
- 2- More efficiency and accuracy in diagnostics
- 3- Remote monitoring of patients
- 4- Rapid and accurate detection of tumors.

ii - Artificial Intelligence in Education:

- 1- Efficient and modest learning experience
- 2- Workload reduction of on teachers.
- 3- Research and technology
- 4- Personalized courses and tutorials.
- 5- Meaningful and immediate feedback system

### iii - Artificial Intelligence in industrial automation:

- 1 - Defect detection and predictive analysis
- 2 - Real quality control and quality assurance
- 3 - Process optimization
- 4 - Personalized customer experience

### iv - Artificial Intelligence in media and entertainment:

- 1 - Game design<sup>ing</sup> and features.
- 2 - Movies editing
- 3 - Sound and effects in videos.
- 4 - Personalized recommendations based on interest.
- 5 - News distribution and fact check.

### v - Artificial intelligence in information technology:

- 1 - Artificial intelligence driven chat-bots
- 2 - Virtual assistants for various companies
- 3 - Cyber security
- 4 - Software development

### vi - Artificial Intelligence in social welfare:

- 1 - <sup>help in</sup> Transport and travel
- 2 - <sup>help in</sup> Food tech
- 3 - <sup>help in</sup> Real estate
- 4 - Less human labor.

### III - Conclusion.

## THE ESSAY:

"AI is likely to be either the best or worst thing to happen to humanity" - Stephen Hawking. Artificial Intelligence (AI) refers to the stimulation of human intelligence into machines that can think like humans and can mimic their actions. It also includes machines to exhibit traits of human mind like problem solving and learning. Applications of artificial intelligence are endless, in a sense that, it is evolving, and replacing human activity in many sectors. Artificial intelligence is being used in healthcare, education, industrial automation, media and entertainment, information technology and in social welfare which increases the efficiency and accuracy of the processes involved. The use of artificial intelligence market is projected to grow to \$312.4B USD by 2027, according to ReportLinker. The rising trend in the market is because of the use of AI and internet of things (IoT). This essay highlights the major industries using AI and supports the stance that AI is not all evil - it can promote good, too.

Firstly, Artificial intelligence is used in healthcare sector. It offers revolutionary advancements that enhance diagnostic accuracy, treatment efficiency and patient care. Through machine learning algorithms and data analytics, AI can analyze vast amounts of medical data to identify patterns and enables personalized treatment plans tailored to individual patient needs, leading to better outcomes and reduced healthcare costs. Moreover, using algorithms, doctors can diagnose diseases with greater precision and efficiency. Scientists also use artificial intelligence for blood sampling and processing

The outbreak of COVID-19 pandemic was unarguably the biggest catastrophe in 21st century but with the help of AI - gene empowered tools, the vaccine discovery of this deadly virus was accelerated - from detecting COVID-19 to limiting the spread, reducing the workloads from health workers to creating its vaccine, AI has adequately catered to public health needs. Likewise, remote monitoring of patients ~~who can't visit the hospital~~ is also empowered by AI facilities management particularly for chronically ill or elderly patients. Furthermore, AI has also enabled the doctors to efficiently detect the tumors, the program is set on the machine which detects the white glands indicating the tumor and then enabling the doctors and surgeons to ~~it~~ remove it.

Secondly, AI-driven technologies offer transformative opportunities to enhance learning experience, ~~and~~ address the student's problems, ~~and~~ students and also teachers can <sup>access</sup> ~~get~~ the information regarding their subjects available online. <sup>Moreover,</sup> The teachers' workload has been reduced, when in the back 90's they had to go to the library to get the ~~desired~~ desired book and the search through the topics, now AI has made it easy for them. ~~and~~ Similarly, it provides platforms for research and technology. ~~It~~ offers personalized courses and tutorials. AI assists educators in curriculum development, assessment and grading and administrative tasks. Lynch in EdAdvocate writes, "AI doesn't detract from classroom instruction but enhances it in many ways." Additionally, AI has enabled meaningful and immediate ~~me~~ feedback system where one doesn't feel shy to receive criticism and can improve for better. Overall, AI ultimately helps educators make continued progress in addressing the broad range of

physical, cognitive, academic, social and emotional factors that can affect student learning and ensure that all students have equal opportunity in education, regardless of their social class, race, gender, <sup>and</sup> ethnic background.

Thirdly, artificial intelligence plays a significant role in industrial automation, revolutionizing traditional manufacturing processes and improving efficiency, productivity and decision-making. First, AI algorithms can ~~search~~ analyze the data, equipment performance metrics and previous maintenance records to predict the machine or its ~~future~~ components' failure. This enables proactive maintenance scheduling and allowing the organizations to address maintenance needs before equipment failures occur.

Second, AI-powered computer vision systems can analyze images or video streams from cameras placed in the manufacturing processes. These systems can identify the defects or deviations from the standards. By implementing the machine learning algorithms, AI systems improve can continuously improve their accuracy in detecting defects. and ensure real-time quality control and reducing the need for manual inspection. Third, AI algorithms can

analyze large volumes of data from the servers, its production lines and supply chains. By identifying the patterns, their correlation and inefficiencies in data, AI systems can optimize the process parameters and suggest improvements to overall manufacturing operations.

This AI-based process optimization lead to reduced waste and enhanced resource utilization - ~~Fourth~~ last

but not the least, AI-driven tools offer personalized customer experience in industrial automation. by tailoring interactions and services based on individual preference. This enhances customer engagement, loyalty and satisfaction.

Fourth, the services of artificial intelligence in IT sector are limitless. AI-driven chatbots provide instant assistance, guiding the individuals in their ~~request~~ <sup>likewise</sup> according to their needs. These chatbots are available 24/7 and handle multiple queries simultaneously. Whenever we have a query related to a specific company, on their webpage there is a chatbot or a virtual assistant available to answer that. **LeanIX** is an AI assistant that boosts productivity and effectiveness while ensuring that the confidential data remains secure. <sup>Similarly,</sup> Amazon uses AI for product recommendations, fraud detection, and Alexa, their virtual assistant. They also provide AI services through Amazon Web services (AWS), including machine learning services and AI app development tools. Additionally, AI has increased cyber security by detecting and responding to threats in real-time. It can identify patterns in data that may indicate a cyber-attack and take preventive measures. Moreover, the recent development in software is also because of artificial intelligence. That includes code generation, bug detection, photo or video generation using prompt. **The Remini** application is a picture developing and editing application that is based on AI-driven tools. It takes prompt from a user to generate the desired picture. Similarly Adobe Lightroom, Photoshop, PixArt, Snapseed also includes AI-driven tools that not only enhances the picture quality but also transforms it into the desired picture.

Fifth, artificial intelligence is now increasingly in media and entertainment sector. AI elevates game design by ~~im~~ improving non-player characters (NPCs) and refining mechanics, creating realistic and challenging levels that enhance the player's experience. **PUBG** is

one of the famous game - AI creates formidable opponents for heightened immersion of gameplay and engaging gaming journey. Moreover, AI based tools are used in media industry when producing and directing a movie. These includes more realistic effects and editing that creates high-impact on the audience. An example of sci-tech movie is OASIS that included a 3D virtual reality experience for audience and also indulges the players in the movie to experience realistic scenes. Similarly, these AI-tools are also included in video editing in drama industry. Also the mobile applications like cap-cut offers a user-friendly experience for the users individuals. The app edits and add effects on the plain video making it appealing and can also add <sup>desired</sup> music to it ~~searching~~ worldwide. The Artificial intelligence also provides specific personalized recommendations based on the interest of an individual which is just a click away from them. Once you press the like option to a certain video or podcast, it will sample, ~~and~~ <sup>cut</sup> and provide you with all the related videos to. ~~↑~~ <sup>↑</sup> ~~↓~~ <sup>↓</sup> Similarly, journalists can now use AI in media production processes. They can gather data content as well as compose and distribute at the click of a button. ~~AI auto-generates the social media content across channels and helps in social media ads.~~ Since the internet is teeming with "fake news", making it difficult for the audience to identify fact from fiction, AI enables consumers to provide a quick fact check. One example is Google's search Algorithm update in 2017, designed to put a stop to the spread of fake news and hate speech. The more websites that are "fed" into its algorithm

The more accurate it becomes and as it continuously "learns" over time. Thus, artificial media intelligence in media is now increasingly being used and is continuously being made efficient.

Last but not the least, artificial intelligence empowers travel companies to offer real-time updates and personalized recommendations based on location and budget. Acting as a virtual tour guide, it suggests hidden gems like cozy cafes, scenic viewpoints, enhancing the travel experience. AI-based chatbots play a pivotal role providing booking assistance to the travelers ensuring their timely travel booking.

AI-based tools, similarly, help in food tech by quality control and inspection, menu customization in restaurants, and providing a complete diet plan based on individuals' eating habits and working <sup>requirements</sup> ~~status~~.

It also analyzes client information such as past purchases, preferences and browsing history and make pertinent meal recommendations. Similarly, in real estate, AI automates the property management operations by reducing the errors, and enhancing the efficiency.

Machine learning algorithms analyze diverse datasets to pinpoint prospects based on demographics, online behavior and property preference of individual. Moreover, artificial intelligence has reduced human labor by introducing the robots in real-time that multi-tasks in different domains.

In conclusion, summing up, while AI is often portrayed in a negative light, it is not inherently evil; rather it has the potential to promote social good and advance human well-being across various domains. From healthcare and education to media and social services, AI offers transformative opportunities to address societal challenges and improve quality of life. Thus, by leveraging its power responsibly and collaboratively, we can create a more sustainable and prosperous future for all.