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USEFULNESS OF AI IN DAY-TO-DAY LIFE

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Abstract:

This research paper aims to explore the diverse objectives of integrating artificial intelligence (AI) into everyday life. The rapid advancement of AI technologies has led to their widespread incorporation into various aspects of human existence. This paper delves into the key objectives that drive the integration of AI into daily life, presents concrete examples of AI applications, and discusses the potential implications and challenges that arise from this integration. Through a comprehensive analysis of AI's role in enhancing efficiency, convenience, safety, and decision-making, this paper highlights the transformative impact of AI on modern society. The AI program that senses signals and road angle completely controls the vehicle. The majority of ICT models are complex, overly reliant on huge data, and lacking in self-idea functionality. Deep learning and business collaboration are two growing examples of innovative technologies. In this essay, showcasing its computer power, smart devices, and upcoming developments. We are primarily concentrating on the more general and specific applications of artificial intelligence.

Keywords: *Artificial Intelligence, Smart Car, IOT, Robotics.*

Introduction:

Artificial intelligence has developed from a specialized field of study to a pervasive force that affects many aspects of our daily life. AI has permeated every aspect of modern life, from personal assistants on smartphones to driverless vehicles and smart home appliances. In addition to offering insights into the real-world applications and potential negative effects of this integration, this study seeks to clarify the fundamental goals that support it. AI technologies have progressed beyond being restricted to specialized domains or academic research labs as they continue to develop and mature. Our houses, places of employment, healthcare systems, transportation systems, and entertainment venues all contain them. This intrusion prompts serious concerns about how AI relates to our core needs, wants, and aspirations and how it affects the ongoing development of our contemporary way of life. Artificial intelligence (A.I.), a multidisciplinary field, strives to automate tasks that currently need human intelligence. Despite not being widely understood, artificial intelligence (AI) is a technology that is revolutionizing all aspects of life. This piece makes an effort to educate laypeople about AI and encourages them to use it as a tool in a variety of sectors in order to rethink how we mix data, analyze it, and make decisions. The basics of artificial intelligence (AI), as well as some of its possible uses, were briefly covered in this article.

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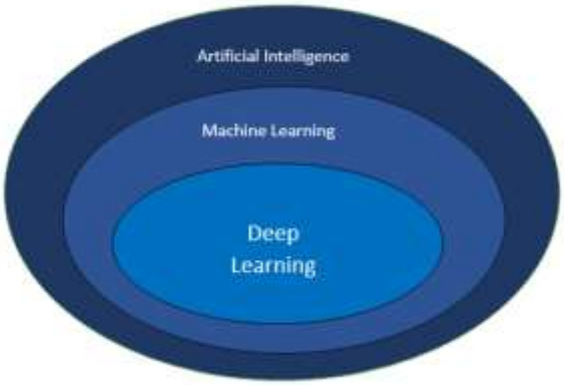

Figure 2

Each approach and subfield within AI has its own methods and objectives. These consist of:

- Machine learning is a branch of computer science that focuses on developing algorithms that let systems learn from data and get better over time without being explicitly programmed.Supervised learning, unsupervised learning, and reinforcement learning are different types of machine learning.
- Deep learning is a subset of machine learning that uses deep neural networks, which include several layers. Due to its capacity to automatically learn hierarchical features from data, it has achieved great success in applications like speech and image recognition.
- Machines can now comprehend, interpret, and produce human language thanks to a process called natural language processing (NLP). This is essential for programs like text summarization, sentiment analysis, chatbots, and language translation.
- The goal of the field of computer vision is to make it possible for machines to comprehend and interpret visual data from the outside world, such as pictures and movies. It is utilized in autonomous cars, object detection, facial recognition, and picture identification.
- Robotics: AI-powered robots are made to carry out duties in actual settings. These jobs can be as straightforward as picking up objects or as intricate as surgery and space exploration.
- Expert Systems: These programs mimic the judgment of people who have specialized knowledge in a given field. They base their judgements or suggestions on rules and knowledge bases.
- Reinforcement learning: In this strategy, agents learn to act in a way that maximizes a total reward. It is frequently used to train autonomous agents, including robotic control systems and game-playing algorithms.
- Making systems that mimic human thought processes, such as context awareness, logic, and judgment, is known as cognitive computing. The goal of cognitive computing is to create machines that can communicate with people more naturally and intelligently.

Advantages of Artificial Intelligence:

- **Decreased Human Error**

  Humans are prone to error when performing dull and monotonous work, but computers, when properly programmed, can prevent this. By applying algorithms to the gathered data, AI models produce predictions, minimizing errors and increasing accuracy. As a result, it is possible to produce better results and make fewer errors. This can help you save time and money. As a result, businesses are increasingly investing in AI to use massive data.
- **Enables the automation of routine tasks**

  Today, many occupations still involve a large amount of repetitive tasks and procedures. The full capacity of human workers cannot be utilized in this way. AI makes it possible to automate repetitive, boring jobs in a variety of contexts, including data collection and entry, email responses, chatbot customer assistance, manufacturing procedures like visual quality inspection, software testing, invoice creation, and many more. Without a doubt, this can give workers more time to work on creative projects or other tasks that call for uniquely human skills.

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- **Handles Big Data with ease**

  Big data can be processed and understood by AI relatively quickly. It can quickly collect data and extract the information that needs to be analyzed. That's not all, though, as AI can also understand and change this data to further process it.

- **Decision-Making under Continuous Availability**

  A Faster Approach to respond to today's dynamic markets, organizations are constantly looking for ways to make decisions more quickly. However, it is imperative to have trustworthy information available at a faster pace for faster decision-making.

  Machines may now deliver aggregated data and forecasts to help with quicker decision-making thanks to AI and other technologies.

Disadvantages of Artificial Intelligence:

- **More Probable to Boost Human Laziness**

  Due to greater machine dependency brought on by work automation and the availability of digital assistants, human laziness may increase. When humans rely too much on AI for routine tasks like basic computations or remembering phone numbers or addresses, it can interfere with their ability to perform daily tasks that require analysis or memorization.

- **Expensive to use**

  The Initial Setup for AI Requires a High Investment Companies must invest in AI frameworks, including the newest hardware and software, and additional costs are incurred on training teams to use the AI systems. All of this results in expensive implementation and maintenance of AI systems.

- **Can Boost Joblessness**

  While AI can replace manual labour and other sorts of repetitive work, which is advantageous for businesses, this also has a negative effect on employment.

  In the future, AI will likely totally replace conventional jobs, making those who currently hold them unemployed.

- **Lacks Imagination**

  Because AI systems rely their forecasts on a set of algorithms, especially in the sphere of content marketing, they can lack creativity.

  AI systems are unable to think creatively or outside the box since they get better with time thanks to inputs and experience.

- **Unable to Comprehend Emotions**

  AI systems can function more quickly and continuously, but they are unable to consider emotions while making decisions.These systems consistently maintain a high level of reason and utility. This is why it can be difficult for AI systems to use emotions when interacting with customers because they are so important for sales and marketing because they can persuade a customer to buy a product.

Literature Reviews on Artificial Intelligence in our daily life:

- **Anant Manish Singh , Wasif Bilal Haju(July 2022):-** A multidisciplinary discipline called artificial intelligence (A.I.) aims to automate jobs that currently need human intelligence. Artificial intelligence (AI), despite not being well known, is a technology that is transforming all facets of life. In order to rethink how we combine data, analyze it, and make decisions, this article attempts to inform laypeople about AI and urge them to use it as a tool in various fields. In this post, we briefly discussed artificial intelligence (AI), its principles, and potential applications.
- **Pinky Gupta(Dec 2021):-** This research paper gives readers a high-level overview of how artificial intelligence has changed our daily lives. Machines with artificial intelligence are affecting place in our lives to aid and increase productivity and strengthen our human propensity. It is difficult to imagine living lifestyles with all that we do. A tool that is widely

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employed is artificial intelligence (AI).It allows people to rethink how we think combine data, analyze facts, and apply knowledge to improve decision-making and assistance with each renovation part of the lifestyles. Organizations have a large number of programs or Many of their facilities include Artificial Intelligence. We can predict that in the upcoming years.

- **Mohd Abbas and Gulam Rasool(July 2021):-** Artificial intelligence is a crucial piece of technology that supports both industry and daily life.AI is a rapidly developing technology in our lives right now. The technology industry to the general public. AI redesigned the human form from all perspectives. As an illustration, schools increasingly deploy AI software that uses face recognition to track attendance. Take a driverless car as an example. The AI program that senses the signals and road conditions totally controls the vehicle. The majority of ICT models are complex, overly reliant on huge data, and lacking in self-idea functionality. Emerging cutting-edge technologies include deep learning and business collaboration.
- **Indrasen Poola (Oct 2017):-**In the modern world, artificial intelligence is developing quickly thanks to new cutting-edge breakthroughs every day. Modern computer systems are built to do simple tasks like driving a car, recognizing faces, and other menial jobs. But the main objective of artificial intelligence is to create sophisticated and more advanced systems that would do better than humans in every manner. This also incorporates the execution of such as playing chess and solving equations, which are more challenging jobs. Therefore, perfecting everything using AI is the ultimate goal.

Methodology:

1. **Research Design:**
   - Exploratory Research: Given the evolving nature of AI's integration into daily life, an exploratory research design will be employed to gain insights into various objectives, applications, and implications.
2. **Data Collection:**
   - Literature Review: Conduct an extensive review of scholarly articles, research papers, reports, and relevant books to establish a solid foundation of existing
   - Case Studies: Select representative case studies from different domains, such as healthcare, transportation, entertainment, and home automation, to analyze specific AI applications and their impacts.
   - Surveys and Interviews: Administer surveys to individuals to gather their perceptions, experiences, and concerns related to AI integration. Conduct interviews with experts, practitioners, and stakeholders to gain nuanced insights.

Figure 2 Knowledge and trends regarding AI in daily life

3. **Data Analysis:**
   - Qualitative Analysis: Analyze qualitative data from case studies, interviews, and open-ended survey responses using thematic analysis to identify patterns, emerging themes, and common perceptions.
   - Quantitative Analysis: Analyze quantitative survey data using statistical methods to quantify trends, preferences, and attitudes toward AI

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integration.

4. **Objective Identification:**
   - Categorize and synthesize the identified objectives driving AI integration into day-to-day life based on the information gathered from the literature review and qualitative analysis.
5. **Application Assessment:**
   - Examine real-world AI applications in various domains, discussing how they align with the identified objectives. Assess their impact on efficiency, convenience, safety, and other relevant dimensions.

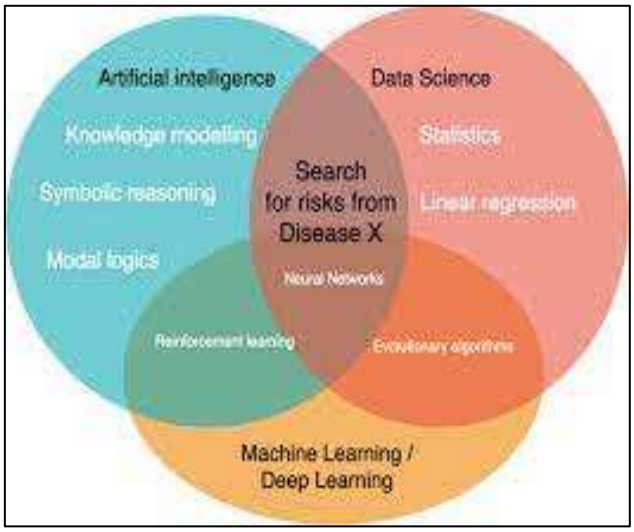

Figure 3 Search of Risks

6. **Implications and Challenges:**
   - Identify ethical, societal, and technical implications arising from AI integration. Analyze challenges related to data privacy, algorithmic bias, human-AI interaction, job displacement, and regulatory frameworks.
7. **Comparative Analysis:**
   - Compare the objectives and outcomes of AI integration across different domains, highlighting similarities, differences, and lessons that can be applied to other sectors.
8. **Ethical Considerations:**
   - Reflect on ethical considerations in conducting research involving human subjects, ensuring privacy and informed consent.
9. **Validity and Reliability:**
   - Enhance the validity of findings through triangulation by using multiple data sources (literature, case studies, surveys, interviews).Ensure reliability by maintaining consistency in data collection methods and rigorous analysis techniques.

Applications:

- **AI in Astrophysics**
  Artificial intelligence is often incredibly effective at solving the most difficult issues in the universe. Understanding the genesis and operation of the cosmos can be aided by AI technology.
- **Healthcare and AI**
  In the last five to ten years, AI has improved the healthcare industry and is projected to have a significant impact on it.In the healthcare industry, AI is being utilized to diagnose patients more rapidly and precisely than humans. AI can help doctors make diagnosis and can notify them when a patient's health worsens so that therapy can be started before the patient is admitted to the hospital.
- **Gaming with AI**
  AI is usable in video games. Chess and other strategic games that call for a lot of ingenuity on the part of the machine are games that AI machines are capable of playing.
- **Finance using AI**
  - The financial and AI sectors are perfect collaborators.
    In the finance industry, automated processes, chatbots, adaptive intelligence, algorithm trading, and machine learning are all being used.

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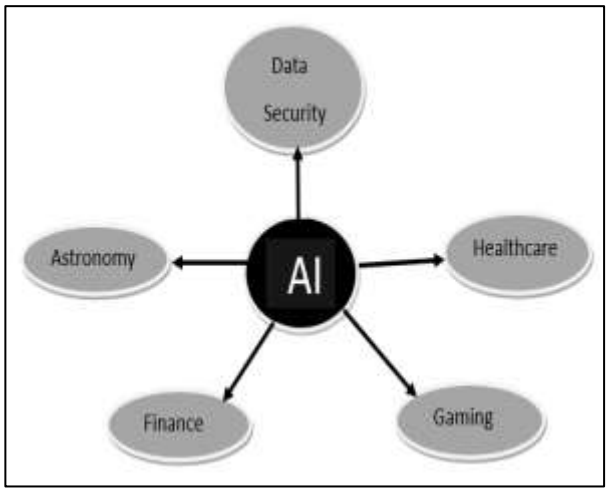

Figure 4 Application of AI

- **Data Security Using AI**

  Data security must be given top priority by every company because cyberattacks are significantly rising in the digital age. With the aid of AI, your data may be made to be more secure and safe. To more precisely discover software defects and cyber-attacks, examples like the AEG bot and the AI2 Platform are employed.

Conclusion:

Goals like productivity improvement, tailored experiences, decision help, safety, accessibility, and automation are what motivate the integration of AI into daily life. Its uses cut across many industries, having a big impact on how we live, work, and communicate. But this integration also poses moral, societal, and technical issues that should be carefully considered. Fostering a balanced approach between scientific advancement and appropriate application is essential to unlocking AI's full potential for societal improvement as it continues to develop. As AI advances daily and becomes a more commodious technology, people are connecting with it more. We can therefore draw the conclusion that while it is a brilliant technology, each technique must be used in moderation in order to be used efficiently and safely.

Reference:

Amodei, D., Olah, C., Steinhardt, J., Christiano, P., Schulman, J., & Mane, D. (2016). "Concrete Problems in AI Safety." arXiv preprint arXiv:1606.06565.

Silver, D., Huang, A., Maddison, C. J., Guez, A., Sifre, L., Van Den Driessche, G., ... & Hassabis, D. (2016). "Mastering the game of Go with deep neural networks and tree search." Nature, 529(7587), 484-489.

Yann LeCun, Léon Bottou, Yoshua Bengio, and Patrick Haffner's "Gradient-Based Learning Applied to Document Recognition" was published in 1998. - This study paved the stage for the comeback of neural networks in the twenty-first century by introducing the usage of convolutional neural networks (CNNs) for document recognition.

By Volodymyr Mnih et al. (2013), "Playing Atari with Deep Reinforcement Learning" - In order to play a variety of Atari games at a level of proficiency comparable to a human, this study introduced the Deep Q-Network (DQN), a breakthrough in the integration of deep learning with reinforcement learning.

Stuart Russell's "Human Compatible: Artificial Intelligence and the Problem of Control"

Kai-Fu Lee's book "AI Superpowers: China, Silicon Valley, and the New World Order"

Robin Hanson's "The Age of Em: Work, Love, and Life when Robots Rule the Earth"

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