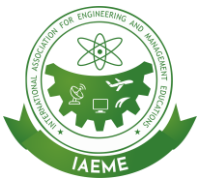
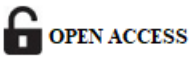
International Journal of Artificial Intelligence Research and Development (IJAIRD)
Volume 2, Issue 2, July-Dec 2024, pp. 217-226, Article ID: IJAIRD_02_02_019
Available online at https://iaeme.com/Home/issue/IJAIRD?Volume=2&Issue=2
Impact Factor (2024): 6.98 (Based on Google Scholar Citation)
Journal ID: 234A-56Z1
DOI: https://doi.org/10.34218/IJAIRD_02_02_019





FUTURE-PROOF LIVING LEADING A BETTER LIFE WITH ARTIFICIAL INTELLIGENCE

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ABSTRACT

AI is a big deal in our time. We talk to each other and use technology in very different ways. AI not only helps us solve hard problems by copying how people think, but it also speeds up tasks that used to take a long time. This saves time for both people and businesses. You can use it for a lot of things, like getting around and getting medical care. This shows how useful it is and how it can help people make better choices and get more done. Adaptive Life Advancement's potential also suggests that AI could help people live in ways that are better for the environment and more flexible. We can imagine a future where AI personalizes learning for each student, energy use is optimized, and cities are built to meet the needs of their residents. But with this promise comes the duty to make sure that AI is fair and doesn't favor one group over another and that everyone can use it.

Keywords: Artificial Intelligence, Human Cognitive, Labor-Intensive, Adaptive Life Advancement.

Cite this Article: Bijal Lalitkumar Dave. (2024). Future-Proof Living Leading a Better Life with Artificial Intelligence. *International Journal of Artificial Intelligence Research and Development (IJAIRD)*, 2(2), 217-226.
DOI: https://doi.org/10.34218/IJAIRD_02_02_019

1. Introduction

AI is now a part of everyday life thanks to smart assistants, smart home systems, and personalized digital services. These tools help you get more done and make life easier by doing the same things over and over again and making fewer mistakes. This includes things like keeping an eye on your health, planning your meals, shopping, and making your commute more efficient. Wearable technology and personalized therapies are two examples of AI-driven innovations that are changing how patients are treated in healthcare by making diagnoses more accurate and improving clinical outcomes. AI makes adaptive tutoring systems that change lessons based on what each student needs and wants to learn. It also helps people all over the world get information by making it easier to understand. AI does boring or dangerous tasks so that people and machines can work together. This lets people do more important and creative work [1].

AI is also very important in cities because it helps make cities smarter. AI improves important services by using real-time data analysis and predictive modeling. These services include keeping the public safe, controlling traffic, and using energy. It also helps digital platforms work better and get more people involved, stops fraud in financial services, and gives people personalized financial advice. But as AI gets better, it could cause big problems like losing jobs, losing privacy, and using more energy. To make sure that technology works for people in the future, we need to promise to develop AI in a way that is ethical and focuses on openness, responsibility, privacy protection, and inclusion [2].

AI is changing the way we deal with problems and make the most of opportunities in our daily lives. AI is changing the way we live as it gets better. It helps us learn and make better choices. To get by in a world that is always changing, you need to know how to adapt. One way we can use AI to make the future better is to put adaptability, sustainability, and well-being at the top of our list of things to do. This means you should always be open to learning new things, thinking about the moral implications of using AI, and using smart systems to improve your life. These rules will help people and communities in the long run, even though the world is getting more complicated and uncertain. This will make sure that we don't just sit back and let technology make our lives better; we will also be a part of making the future better [3].

It is very important to learn basic skills as we deal with the problems of a world that is becoming more AI-driven. People can stay flexible and up-to-date by learning new things and keeping up with changes in technology. You should also be able to think for yourself and figure things out. They let people look for errors and biases in AI outputs and come up with

useful fixes that build on what people already know. People also need to know how to use technology and data so that they can use AI tools correctly and treat data fairly. This will help them stay safe when they use technology. Emotional intelligence is one of the most important things to know about how to get people and AI to work together better. It teaches people how to be more understanding and friendly in this new world. Creativity and new ideas are important because they work well with AI's ability to look at data and help people come up with new ideas and use them in different ways. You should also know a lot about AI and ethics so you can make smart choices about how to use technology that doesn't hurt anyone. Finally, it's very important to be able to talk to and work with people from different fields to find solutions to tough problems. It is also important to be able to change and get back on track after a setback [4].

People and society need to accept this change in technology because it is changing how we live, work, and interact with others. AI is always making things easier and people more productive. In a job market that is becoming more and more focused on AI, you could lose your job if you don't keep up with it. AI could make a big difference in many areas, such as business, health care, education, and projects that help the environment. This shows that it can make things better for everyone. But this quick progress also brings up important issues about jobs, privacy, and ethics that need to be addressed by a group of people who know what they're talking about [5].

2. The AI Revolution in Daily Life

The use of artificial intelligence in our daily lives is a big change in how we use technology and run our lives. AI is becoming a bigger part of our daily lives. Here are some ways it makes life and technology better [6]:

- **Intelligent Houses:** Smart home devices with AI learn what users like and change settings on their own to make homes more comfortable and save energy.
- **Virtual Helpers:** AI-powered digital assistants like Siri, Alexa, and Google Assistant can hear what you say and do what you ask. Now it's easier for people to use.
- **Personalized Digital Services:** AI looks at how each person uses Netflix and Amazon to suggest things that are just for them. This keeps them engaged.
- **Chatbots and Customer Service:** AI chatbots can always help customers. This makes things better and speeds up answers.

- **Better technology for everyday use:** AI adds features like voice search, facial recognition, and predictive text to smartphones, making them safer and smarter.
- **Intelligent Houses:** AI smart home devices learn what people like and change their settings on their own to make homes more comfortable and save energy.

Digital services that use AI are a big threat to privacy and need to be fixed. AI systems are easy to hack, personal information can be collected without the user's permission, and algorithms can be biased. All of these things make the world less private. These fears are made worse by using hidden monitoring tools and data in the wrong way. As AI technology gets better, it's important for everyone to put privacy rights first by making sure people know what they're agreeing to and that there are strong security measures in place [7].

AI can make life better in many ways, such as by managing energy, keeping an eye on health, customizing shopping, and providing entertainment. Smart appliances that use AI not only save energy, but they also help the environment a lot. This could save you up to 25% on your energy bills. AI wearables are good for health monitoring because they give you useful information about your own health, encourage you to take care of yourself, and keep you safe by sending you alerts right away. AI has changed personalized shopping by suggesting products based on what each person likes. This makes customers happier and makes it easier for them to shop. Also, services like Netflix and Spotify use AI to make personalized content that keeps people interested and happy. These apps show that AI is not just a new technology; it's also a key part of making lives more efficient, personalized, and sustainable. This will change many industries in the future [8].

AI-enabled home energy management systems are a big step forward in making energy use more efficient and making the user experience better. The EcoFlow DELTA Pro 3, the Schneider Electric Wiser Home app, the SAJ elekeeper, and other general AI smart home systems are all examples of how AI could change how we use energy in our homes. These systems not only let you see what's going on in real time and figure out what's wrong, but they also change based on how people use them and the weather. This makes sure that energy is used in the best way possible. These solutions help save a lot of money and make things more sustainable by using automated scheduling, dynamic tariff strategies, and predictive maintenance. They also show how much they care about the environment by using renewable energy sources like solar power. These technologies keep getting better, and they promise to make life easier, more comfortable, and more efficient. In the end, they will change how people use energy and live in their homes. The future of home energy management is going

to be very bright because of AI [9]. Figure 1 below shows how AI will affect important parts of human life in the future:

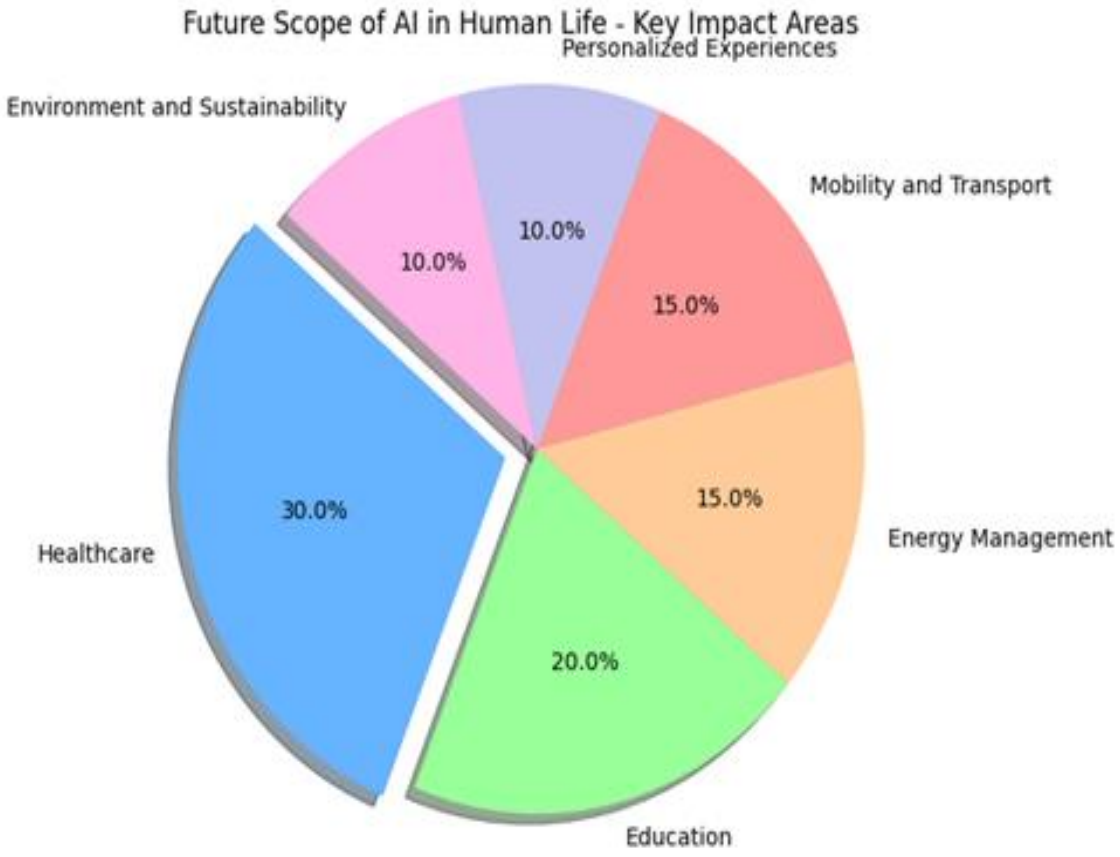

Figure 1: Future Scope of AI in Human Life – Key Impact Areas

3. Humanity's Role in the AI Age

Using AI in city planning and management is making cities smarter, greener, and more resilient places to live. Cities like Metroville and Barcelona are using AI-powered solutions to make better use of their resources, save more energy, and make their streets safer through new technologies like real-time traffic analysis and smart lighting systems. Seoul's smart transportation systems and Dubai's self-driving taxis are two examples of how better ways to get around can cut down on traffic and make cities more eco-friendly. AI also helps cities deal with climate change better by using early warning systems and predictive modeling. These tools help cities deal with environmental issues in a smart way.

The Tree Canopy project and other similar projects from Google show how important green spaces are for staying cool during heat waves. Digital twins powered by AI can help you plan infrastructure and make it stronger so it can handle stress better. Smart buildings, like Samsung's cutting-edge residential complexes, show how AI can help manage energy use

and lower carbon footprints even more. When cities use artificial intelligence smartly, they can become more efficient and sustainable in the future. They will also be better able to deal with the problems that come with climate change and more people moving to cities. The more cities use these technologies, the more likely it is that people will have a better quality of life, governments will be more accountable, and people will be more involved. This is a big step toward making cities more sustainable in the future [10].

Using AI to manage traffic, energy, and trash is a new way to solve problems in modern cities. The adaptive traffic management system in Agartala is a great example of how AI can make roads safer and more efficient by changing traffic lights based on data that is collected in real time. Nagpur's use of AI-powered systems to enforce traffic laws has also made people follow the rules more and caused fewer accidents. This is an example of how technology can help keep cities safe. Two examples of how AI can help manage energy use, save money, and lower carbon footprints are Schneider Electric's Wiser Home and EcoFlow DELTA Pro 3. These systems not only help homes, but they also help the environment by intelligently managing energy needs and predicting how much energy will be used.

Using AI-powered smart bins and predictive analytics to make waste management better is an example of how important it is to think of new ways to protect the environment. These technologies not only lower the cost of running a business by making recycling easier and finding the best routes for collecting trash, but they also make trash disposal less harmful to the environment. AI is very important for making cities smarter, more efficient, and more environmentally friendly. Cities will need to use smart systems to deal with the problems that come with living in a city as they change. This will make things better for people and the planet [11].

4. Architecture

We need to design a conceptual architecture that connects smart systems that will make different parts of daily life better. The architecture in Figure 2 below should focus on making health, mobility, energy efficiency, and sustainability better. At the same time, user-friendliness, privacy, and flexibility should be the most important things. The goal is to use AI technologies to make life better by building a complete framework.

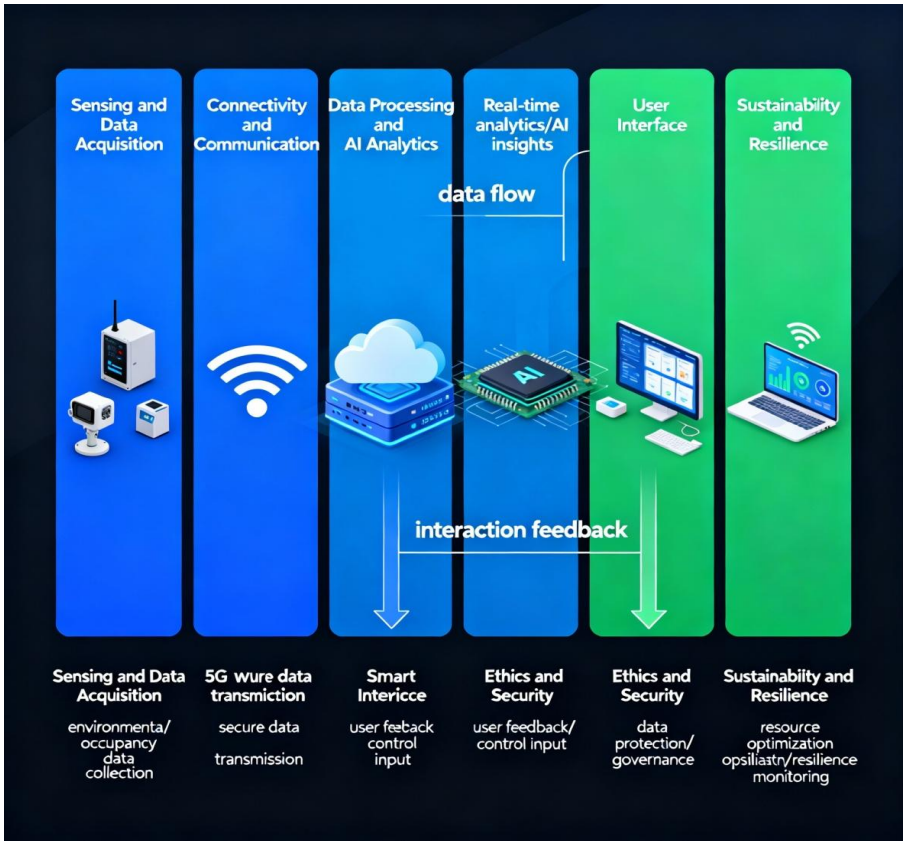

Figure 2: Architecture supporting "Future-Proof Living: Leading a Better Life with AI"

1. **Layer of Sensing and Data Acquisition:** This layer connects IoT sensors to cars, wearables, homes, and urban infrastructure to keep an eye on health, energy use, and the environment. This lets you analyze data in real time.
2. **Layer of Communication and Connectivity:** Uses edge computing for quick data processing and blockchain for safe communication, and it has high-speed networks like 5G and Wi-Fi 7 to connect devices and services without any problems.
3. **AI Analytics and Data Processing Layer**: This layer uses cloud and edge AI to combine data, make predictions, and help people make decisions. This lets you manage things better in areas like mobility and energy efficiency, and digital twins help you make the most of your resources.
4. **User Interface and Interaction Layer:** This layer has AR/VR interfaces and virtual assistants that let you see data in real time, mobile apps that help you automate your home and keep track of your health, and platforms that let people help with city planning.
5. **Framework for Ethics, Privacy, and Security:** Stresses how important it is to have clear AI algorithms, privacy-protecting methods like federated learning, and strong cybersecurity measures to protect infrastructure and personal data.

6. **Sustainability and Resilience:** The Long-Term Viability and Strength Layer uses AI to manage energy, predictive maintenance to deal with climate change, and better recycling and resource management to help the circular economy.

AI, or artificial intelligence, used to be a science fiction idea, but now it's something we use every day. It makes people's lives better by automating boring tasks, making decisions easier, and giving people personalized experiences in areas like healthcare, education, energy management, and entertainment. AI is used in everyday life for things like keeping phones safe by recognizing faces, giving personalized shopping suggestions, and controlling traffic in real time. All of these jobs need to look at a lot of data to find patterns and make smart changes. AI has a lot of good points, such as making things easier, safer, and more productive. But it also raises important questions about privacy, losing jobs, and moral issues. The table below shows how life is different with and without AI. It shows how important AI is for making things more efficient, personal, and connected. This shows how important it is to add AI to society in a careful way so that it lasts.

Table 1: Comparison of Human Life with AI versus without AI

Aspect	Without AI	With AI
Daily Tasks	Manual, repetitive, time-consuming tasks like scheduling, data entry, and searching	Automation of mundane tasks, freeing humans for creativity and complex work
Personalization	Generalized services, limited customization in shopping, entertainment, and healthcare	Highly personalized experiences using data-driven insights and recommendations
Navigation and Mobility	Relies on static maps and schedules, no dynamic rerouting	Real-time adaptive navigation optimizing routes, reducing time and emissions
Energy Management	Mostly manual control, less efficient usage	Smart homes and cities optimize energy use, reduce costs and environmental impact
Healthcare	Diagnostics and monitoring depend on human observation, slower responses	AI accelerates diagnostics, predicts health issues, enables personalized treatment
Customer Support	Limited hours and slower responses	24/7 AI chatbots and virtual assistants providing instant help and complex solutions
Communication	Manual searching and interaction	Natural language processing and intelligent search improve efficiency and access
Challenges	Fewer privacy or automation issues but more effort	Privacy concerns, ethical considerations, and risk of over-dependence on AI

5. Conclusion

Artificial Intelligence is likely to change everything about how people live and interact starting in 2025. Better healthcare, like accurate diagnoses and treatments that are made for each person, will not only make medical care better, but it will also make it easier for everyone to get the best care possible, no matter what. AI gets better, it could have a big effect on the transportation industry. Self-driving cars and smart traffic management systems, for instance, could make roads safer and more efficient, which would mean fewer accidents and less traffic. Students will learn better if they can find ways that work for them. This will make it more flexible and open. AI is a big part of making the world a better place to live. AI will help fix major environmental issues and make the future more sustainable by helping us use resources more wisely and build smart city infrastructures. But we need to be careful when we deal with the problems that these changes bring. People are worried about their privacy, the chance of losing their job, and the need for strict rules to keep an eye on how AI affects people.

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Citation: Bijal Lalitkumar Dave. (2024). Future-Proof Living Leading a Better Life with Artificial Intelligence. International Journal of Artificial Intelligence Research and Development (IJAIRD), 2(2), 217-226.

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