Vol. 9 Issue 1 January - 2025, Pages: 63-70

Media Education In The Age of Artificial Intelligence

Saad A. Al - Saadi, Iraq Researcher And Critic

Saadalsaady49@gmail.com

Abstract: Modern technology and artificial intelligence are among the most prominent issues affecting the media and society in the current era. The existence of these sophisticated tools requires a new level of media education, as individuals must understand how to use them correctly and safely. Media education is aimed at improving the ability of individuals to effectively access, analyze and evaluate information, helping them distinguish between correct and misleading information. The importance of media education in the age of artificial intelligence is increasing as a result of increasing challenges, such as analyzing big information, countering disinformation, and enhancing digital skills. Individuals should acquire critical thinking tools and awareness of the social and ethical implications of artificial intelligence, including issues of bias in algorithms. Bias in AI algorithms leads to unfair results, requiring improved data collection, evaluation of models, and enhanced transparency. Through media education, individuals can be empowered to make informed decisions in a world full of information, making investment in this area essential to build a more informed and informed society.

Introduction:

Modern technology and artificial intelligence (AI) are the most prominent phenomena that affect all aspects of life, including the media. The existence of this cutting-edge technology requires a new level of media education, as individuals need to understand how to use these tools correctly and safely.

The concept of media education:

Media education is a process aimed at improving the ability of individuals to access, analyze, evaluate and effectively use information. This includes understanding how the media works, interacting with digital content, and distinguishing between correct and misleading information. With the development of artificial intelligence, media education is becoming more and more important, as it requires individuals to understand how this technology affects the information they receive.

The importance of media education in the age of artificial intelligence:

In the last two decades, we have witnessed amazing progress in the fields of technology, especially in (AI). Artificial intelligence has become an integral part of our daily life, affecting the way we interact with information and news. In this context, the importance of media education stands out as a necessary tool to enable individuals to navigate in this complex and challenging world, as follows:

First: Understanding and analyzing information:

Media education is a process that enables individuals to understand and critically evaluate information. In the age of artificial intelligence, the amounts of information available are increasing unprecedentedly, which makes it necessary for individuals to have tools to analyze this information. The distinction between true and false information is becoming more complicated, as artificial intelligence technologies are being used to produce highly realistic content, which increases the risk of fake news spreading.

Secondly: Enhancing digital skill:

Interacting with AI enhanced media content requires a new set of digital skills. This includes the ability to use modern technology tools, such as social platforms, smart bots, personalization algorithms. Media education is a key element in equipping individuals for these challenges, enabling them to use these tools effectively and safely.

Third: Awareness of social and ethical influences:

The use of artificial intelligence in the media can have profound social and ethical implications. For example, there are concerns of bias in artificial intelligence algorithms, as these algorithms may reflect biases present in the data used to train them. Through media education, individuals can become more aware of these issues, which helps them to think critically about the information they receive.

International Journal of Academic Pedagogical Research (IJAPR)

ISSN: 2643-9123

Vol. 9 Issue 1 January - 2025, Pages: 63-70

Fourth: Combating misinformation:

The growing prevalence of disinformation and fake news is partly due to the ability of AI to create content that looks convincing. In this context, media education plays a vital role in enabling individuals to recognize this misinformation. By teaching them how to check sources and understand how media algorithms work, individuals can become more resistant to the negative effects of inaccurate information.

Fifth: Development of critical thinking:

Media education involves not only learning how to use technology, but also the development of critical thinking skills. In the age of artificial intelligence, individuals must learn to question and critically analyze information, rather than accepting it as it is. This type of thinking enhances their ability to make informed decisions in various aspects of their lives.

Bias in artificial intelligence algorithms:

For the importance of knowing the bias of artificial intelligence algorithms and what they are, we somewhat separate from them:

First, the concept:

Bias in AI algorithms refers to the phenomenon that leads to unfair or biased results as a result of using unrepresentative data, or algorithms designed in a way that reinforces pre-existing biases. This bias can manifest itself in various applications such as image classification, natural language processing, and content recommendations.

But what do algorithms mean? Algorithms are a set of specific steps or rules that are used to solve a particular problem or to perform a particular operation. An algorithm can be imagined as precise instructions that tell you how to come to a certain result, such as a culinary recipe or instructions for performing a task. Simplified example: if you want to make a cup of tea, the algorithm may consist of the following steps: Boil the water.. Add a tea bag to a cup.. Pour boiling water into the cup.. Leave it for 3-5 minutes.. Remove the tea bag.. Add sugar or milk to taste.. Enjoy a cup of tea.

Uses of algorithms: Algorithms are used in multiple fields such as: programming (for software development). Data analysis (for the interpretation of information). Artificial intelligence (for machine learning and decision making). Simply put, algorithms are structured ways to solve problems or perform tasks effectively.

Secondly, the types of biases:

- 1. Data bias: Occurs when the data used in model training is not sufficiently representative of all categories or groups. For example, if a model is trained on data that has a poor representation of a certain class, then the model may have poor performance when working with this class.
- 2. Design bias: It is related to how a particular algorithm is designed. Decisions about how to choose features or how to build the model may involve biases by developers, leading to unfair results.
- 3. Results bias: It can appear when the results of the model are biased or unfair, even after using representative data. This can have to do with how the results are interpreted or how they are used in decision-making.

Third: The impact:

Bias in AI algorithms can lead to serious consequences, such as discrimination in areas such as employment, loans, and criminal justice. This discrimination can negatively affect individuals or groups at risk.

Dealing with bias:

Improve data collection: The data used in training should be diverse and comprehensive.

Evaluation of models: It is necessary to test models on different data sets to make sure that there are no biases.

International Journal of Academic Pedagogical Research (IJAPR)

ISSN: 2643-9123

Vol. 9 Issue 1 January - 2025, Pages: 63-70

Transparency: There should be transparency in how algorithms are designed and used.

Continuous Training: continuous education of developers about bias and its impact.

Bias in artificial intelligence algorithms is an important issue that requires serious attention from developers and researchers. By understanding the different types of bias and ways to address them, systems can be improved and their negative effects on society reduced.

It can be said that media education in the era of artificial intelligence is an urgent necessity. By strengthening people's skills and enabling them to critically understand information, we can better meet the challenges posed by modern technology. Investing in media education is an investment in a more informed and conscious future, where individuals can make informed decisions in a world full of information.

Artificial intelligence or AI:

It is a branch of computer science that aims to develop systems capable of performing tasks that usually require human intelligence. These tasks can include learning, understanding, critical thinking, making decisions, interacting with the environment and other things.

Types of artificial intelligence:

- 1. Narrow artificial intelligence: Also known as special artificial intelligence, it is designed to perform a well-defined task. For example, systems used in voice recognition, recommendations in streaming platforms, chess games.
- 2. General artificial intelligence: Also known as strong artificial intelligence, it is a type of artificial intelligence that has the ability to understand and learn any intellectual task that can be performed by humans. This type is still at the research and development stage.
- 3. Super artificial intelligence: This is artificial intelligence that exceeds human intelligence in all areas. This type is still theoretical and has not yet been realized.

Artificial intelligence applications:

Artificial intelligence applications: Machine learning is a part of artificial intelligence that focuses on developing algorithms that enable systems to learn from data and improve their performance over time.

Natural language processing: used to understand and generate human language, such as machine translation applications and smart chat.

Image recognition: used in applications such as facial recognition and image analysis.

Robotics: used in areas such as manufacturing and healthcare.

The importance of artificial intelligence:

Artificial intelligence is playing an increasingly important role in various fields, including medicine, transport, trade, education, and media. It can improve efficiency, save time, reduce costs, as well as improve user experience.

Challenges:

Despite its benefits, artificial intelligence faces multiple challenges, such as:

- -Ethics: Issues such as privacy, prejudice, and the effects of artificial intelligence on the labor market.
- -Security: Protect smart systems from attacks and hacks.

In general, artificial intelligence is an exciting and diverse field, which continues to develop rapidly, opening up new horizons for improving our daily life.

The role of artificial intelligence in the media:

Recent years have witnessed a tremendous development in the field of artificial intelligence (AI), which has profoundly affected various sectors, including the media. Today, artificial intelligence is a vital tool that helps optimize media processes, provide personalized content, and enhance user experience. We will review the role of artificial intelligence in the media and how it contributes to shaping the future of this field.

- 1.Data analysis: Data is the backbone of any successful media business. Artificial intelligence allows media organizations to quickly and accurately analyze huge amounts of data. Through technologies such as machine learning and big data analytics, artificial intelligence can extract patterns and trends in audience behavior. This helps organizations to better understand the interests of the audience and orient the content in proportion to those interests.
- 2.Content generation: Artificial intelligence is also used in content generation. There are many applications that take advantage of artificial intelligence technologies to write articles, edit news, and even create Sports reports. For example, some news agencies use programs based on artificial intelligence to write reports on sports or financial events based on available data. This allows them to produce content very quickly, which enhances competitiveness in the media market.
- 3.Customize content: Artificial intelligence enhances the ability of media to customize content according to the needs and preferences of users. Through recommendation algorithms, platforms such as (YouTube) and Netflix can offer users personalized content based on their viewing history and preferences. This type of personalization not only increases the interaction with the content, but also increases the loyalty of users.
- 4.Improve user experience: Improving the user experience is one of the key elements of digital media. Artificial intelligence contributes to improving user interfaces and interaction experience by analyzing user behavior and providing instant recommendations. Technologies such as chatbots can also be used to provide instant support to users, making it easier for them to quickly access the information they need.
- 5. Combating misinformation: Misinformation is one of the big challenges facing the media today. Artificial intelligence is used in the development of tools for fact-checking and news analysis, which helps to detect fake news and reduce its spread. By analyzing texts and images, artificial intelligence can identify misleading content and warn users about it.
- 6. Challenges: Despite the many benefits of artificial intelligence in the media, there are challenges that stand out. Among these challenges are: ethical issues related to data bias, privacy, and public trust in content produced by artificial intelligence. Media organizations should consider these issues to ensure responsible use of technology.

From this, it turns out that artificial intelligence is making a significant contribution to reshaping the modern media landscape. By improving data analysis, content generation, and personalization of experiences, artificial intelligence can enhance the effectiveness and efficiency of media operations. However, media organizations must address the challenges associated with the use of this technology to ensure the delivery of reliable and high-quality content. Understanding the role of artificial intelligence in media is an important step towards a more sophisticated and innovative media future. Artificial intelligence is therefore playing an increasingly important role in the field of media.

The importance of media education in the age of artificial intelligence:

In the age of modern technology, (AI) has become an integral part of our daily life, affecting all aspects of society, including the media. With the increasing reliance on artificial intelligence in content production and distribution, there is an urgent need for media education as a way to enable individuals to handle information securely and effectively. Here we will review the importance of media education in the age of artificial intelligence and its role in promoting awareness and information efficiency.

Challenges associated with artificial intelligence:

It is possible to stand at the most important of these challenges, including:

- 1. The spread of disinformation: One of the biggest challenges in the age of artificial intelligence is the spread of disinformation and fake news. Artificial intelligence can be used to convincingly create false content, making it difficult for individuals to distinguish truth from deception. This is where media education comes into play in enhancing critical thinking skills and the ability to verify sources.
- 2.Privacy and security: With the increasing use of artificial intelligence, concerns about privacy and information security are increasing. Individuals should have sufficient awareness of how their data will be used, how to protect themselves from the risks associated with the internet. Media education helps build this awareness and enhances the ability of individuals to make informed decisions about the information they share.
- 3.Enhancing digital skills: In an age of increasing reliance on technology, it becomes imperative that individuals possess strong digital skills. This includes the ability to use digital tools, an understanding of how algorithms work, and the ability to interact securely with digital content. Media education provides these skills, enabling individuals to take full advantage of the possibilities offered by technology.
- 4. Social responsibility: Individuals must be responsible in their use of information. Media education enhances this awareness, as it teaches individuals the importance of critical thinking and recognizing their influence in disseminating information. In the age of artificial intelligence, each individual plays a role in shaping the available information, and media education helps to consolidate this responsibility.

Strategies to promote media education:

There are several ways to find out the most important strategies for promoting media education

- 1.Development of educational curricula: Educational curricula should include programs focused on media education, including topics related to artificial intelligence. These programs can include workshops, study courses, and lectures to promote awareness of modern methods in the media.
- 2.Inter-institutional cooperation: Educational institutions, the media, and governments should cooperate to promote media education. These efforts can include awareness campaigns, educational resources, and the development of interactive educational tools.

Challenges facing media education in the age of (AI):

In the age of artificial intelligence, information is becoming available faster and more diverse than ever before. But with these new opportunities come great challenges for media education. Effective use of this advanced technology requires a deep understanding of how it works, its social implications, and the potential risks associated with it. In this article, we will address some of the main challenges facing media education in light of the increasing use of artificial intelligence.

- 1. The spread of disinformation: Misinformation is one of the biggest challenges facing media education today. With the increasing ability of artificial intelligence to produce written, audio and visual content, it has become difficult to distinguish correct information from erroneous. This contributes to the strengthening of gaps in knowledge and misinformation, which necessitates the need to strengthen the skills of verifying sources and evaluating information by specialized experts and familiarizing the public with them.
- 2. The digital divide: Levels of access to technology vary between individuals and societies. The digital divide means that some groups, such as the elderly or people in remote areas, may not have the same opportunities to access information or learn about how to use AI tools. This gap exacerbates inequality in media education.
- 3.Lack of knowledge and educational resources: Although artificial intelligence provides powerful tools for data analysis and content personalization, there is a lack of educational resources that focus on how to use these tools effectively. Teachers and students alike need proper training to keep abreast of technological developments and understand how to exploit them in promoting media education.

- 4.Ethical challenges: AI poses complex ethical issues, such as privacy and prejudice. For example, artificial intelligence algorithms can reinforce prejudices or discriminations. Therefore, it is important that media education includes topics related to ethics, so that individuals can understand the implications of using this technology. This has already been mentioned.
- 5. The changing nature of media: The media landscape has changed radically thanks to artificial intelligence, which requires individuals working in this field to undergo continuous training to keep up with these changes. Traditional media is no longer the only means of obtaining information, as digital platforms and social media have come to play a key role. This requires new educational strategies that fit this changing reality.
- 6. The need for critical thinking: The importance of this will be discussed in some detail about critical thinking in the era of artificial intelligence:

In the age of artificial intelligence, information is more accessible than ever, but this explosion of data and content comes with new challenges. While artificial intelligence makes it easier for us to access information, it also makes it more difficult to distinguish right from wrong information. Therefore, the development of critical thinking skills is becoming more important than ever.

The importance of critical thinking:

Critical thinking is the ability to logically analyze and evaluate information. In the presence of artificial intelligence, individuals need to think critically to determine the credibility of the information they receive. Artificial intelligence can be used to generate inaccurate or misleading content, making it essential for individuals to have the ability to verify sources and understand contexts.

The impact of artificial intelligence on information:

Artificial intelligence affects how information is produced, distributed and received. Through personalization algorithms, artificial intelligence can deliver content tailored to the user's interests, which can lead to the formation of an information bubble. This means that individuals may be exposed only to opinions and information that support their views, which promotes division and misunderstanding.

The challenges of enhancing critical thinking skills:

Strengthening critical thinking skills is a challenge under the current circumstances. There are several factors that hinder this effort, including:

- 1. The digital divide: the inability of some groups to access modern technology or the information necessary to develop these skills, and we mentioned this before .
- 2.Lack of education and training: current educational curricula may not focus enough on developing critical thinking skills, leaving individuals unprepared for challenges.
- 3. Social pressure: sometimes, individuals may feel pressured to comply with prevailing opinions or circulating information, which hinders critical thinking.

Strategies to promote critical thinking:

Despite the challenges, there are several strategies that can help strengthen critical thinking skills:

- -Continuing education: there should be efforts to promote educational curricula that focus on critical thinking, through training programs and workshops.
- -Public awareness: awareness campaigns should be held to raise awareness of the importance of critical thinking and how to apply it in everyday life.

-Encourage open discussions: creating environments that encourage open discussions and the exchange of ideas can help individuals develop their critical skills.

All these steps are mostly the responsibility of the state, which is primarily responsible for them, in addition to the role of civil society organizations in raising awareness and disseminating media education. Although there are some modest attempts, but we find obvious neglect by many (the state and others) in this regard, partly for realistic reasons, and partly due to the neglect of many other things, whether in education or training or the pressures of economic and political conditions sometimes.

In the time of artificial intelligence, critical thinking has become an urgent necessity. It requires us to deal with huge amounts of information and understand the impact of technology on our minds and societies. By strengthening critical thinking skills, we can face current challenges and build a more conscious society capable of interacting with information in a responsible way, understanding how artificial intelligence affects the information received by an individual and society. Strengthening these skills is a challenge, but it is necessary to meet current challenges. This task is not easy, but it is necessary to ensure a future based on understanding and analysis, rather than blind acceptance of information.

Conclusions and recommendations:

Media education in the age of artificial intelligence is an urgent necessity to meet the new challenges in the field of media. There should be joint efforts from governments, educational institutions and the media to promote this awareness and enable individuals to use technology safely and effectively. Media education in the era of artificial intelligence is not just a choice, but an urgent necessity. Today's world requires individuals to be informed, aware, and able to interact securely with information. By promoting media education, we can build a society capable of meeting the challenges of the digital age, making the most of the possibilities offered by artificial intelligence. Ultimately, media education is a powerful tool for promoting democracy, social justice, and individual rights in a changing world.

Media education in the age of artificial intelligence faces multiple challenges that require a comprehensive response from all parties involved. By enhancing critical thinking skills, providing appropriate educational resources, and addressing digital divide and ethics issues, we can enhance media education and empower individuals to use AI safely and effectively. Addressing these challenges is an essential step towards building a conscious and informed society in the information age. Conclusions and recommendations in the research of the topic of media education in the era of artificial intelligence based on the above can be varied according to this brief study. However, here are some general points that can be important:

Conclusions:

- 1. The importance of media education: the reliance on digital media and social media platforms is increasing, making media education an urgent necessity to ensure that individuals are able to critically analyze and understand information.
- 2. The impact of artificial intelligence: artificial intelligence can significantly affect how information is produced and distributed, increasing the need for media education skills to understand these dynamics.
- 3. The spread of misinformation: the increasing use of technologies such as machine learning in the creation of fake or misleading content, which necessitates the development of information verification skills.
- 4. The digital divide: there is still a disparity in access to modern technologies and educational resources, which affects the ability of some groups to benefit from media education.

Recommendations:

- 1. Curriculum development: curricula at all educational levels should include materials related to media education and artificial intelligence, so that students have the ability to think critically about the information they receive.
- 2. Providing resources: governments and educational institutions should provide resources and training courses dedicated to enhancing media education skills.

- 3.Intersectoral collaboration: it is important for educational, media and technological institutions to collaborate to develop joint programs that enhance individual's understanding of artificial intelligence and its impact on the media.
- 4. Promote public awareness: awareness campaigns should be carried out aimed at promoting awareness about the importance of information verification and the dangers of disinformation, especially in the context of the use of artificial intelligence.
- 5.Encourage critical thinking: individuals should be encouraged to develop critical thinking and information analysis skills, through workshops, seminars and interactive educational resources.

These points represent a general framework that can be developed and customized according to the specific research content and the desired goals of it.

References:

Notice:

The researcher relied on a group of sources in Arabic in this study with some limited behavior sometimes in accordance with the nature of the topic and scientific citation, and these sources include the following:

- 1. Dr. Ahmed bin Ali Al-Zahrani, D. Sc. Marwa Attia Mohammed, journalism and digital media in the age of artificial intelligence, 2020, first edition, khwarizm scientific press
- 2. William James Potter, the effects of digital media, publishing house: Roman and Littlefield, 2021, first edition in English
- 3. An-Najah website, editorial board, digital media: its concept, types, and the transformation of media to digitization, 12/05/2022
- 4. Educational Futures Magazine, the Arab Center for Educational Research for the Gulf states, media education in the digital age,
- 1/09/2019
- 5. Dr. Asaad Ali Watfa, media education in the digital age: the search for identity in a virtual time, Arab childhood magazine, issue seventy-ninth, June 2019
- 6. Wael Abdel Aal, the effects of digital media, Al Jazeera Center for Studies, website, October 3, 2023
- 7. Mohamed khamaisa, the new ethics of journalism in the digital age, Al Jazeera Media Institute, website, 06/07/2021
- 8. Saudi Caravan magazine, editorial board, journalism in the age of digital technology, issue 6, Volume 63, December 2014
- 9. Website of the strategic communications agency (matrix), Dubai, Public Relations in the digital age: adapting to new technologies and platforms, August/2024
- 10. Gaza Abdul Razzaq, conceptual and technical foundations of artificial intelligence and its development from computational models to machine learning, Arab Center for research and Policy Studies, 2024
- 11. News report, UNESCO, UN website, 193 countries adopt the first global agreement on the ethics of artificial intelligence, November 25, 2021