The Use of Artificial Intelligence in Digital Era Learning for Islamic Education Teachers Facing Generation Z

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Abstract: Start The purpose of this article is to provide Islamic religious education teachers with further options for technological developments by utilizing AI in learning. As well as how teachers can utilize AI to help the teaching and learning process in the classroom. Technology and progress in the digital age are unavoidable and the knowledge gap between generation Z and previous generations regarding technology and information. This article uses a descriptive qualitative method with a netnography approach. Primary sources from websites, scientific journals, literature, online media news related to the research. The data collection method is done by reading, analyzing, and recording various literature materials. The results obtained that, learning Islamic religious education can be integrated with technology effectively. As other sciences can use by integrating AI technology. Classical methods that only use lectures as a technique for delivering learning materials have shortcomings in terms of utilizing technology in today's digital era. Teachers in today's digital era are required to be fluent in using technology. For this reason, the use of AI is important to integrate and adjust to the current generation Z who live in the digital age.

Keyword: AI; Generation Z; Digital Age

1. Introduction

The more advanced science that humans make in terms of technology. Then there are also great challenges that will be faced by the next generation. Technology and progress in the digital age are unavoidable. Whether we want it or not, we have to face it together. Technological advances that exist do not necessarily contain only negative domino effects. But the positive effects of technological progress certainly also exist.

In this case, research conducted by Fauziyati explains that the impact of using Artificial Intelligence (AI) in learning Islamic religious education brings great potential to increase efficiency and effectiveness in learning Islamic religious education [1]. In line with research by Mambu and others, it also explains that the use of AI significantly increases efficiency and is beneficial for teachers in facing the digital era [2]; [3]; [4].

The issue that often holds back technological progress is the desire to maintain the status 'quo' [5]. Whereas in the past when studying at the same age or school level such things did not exist. Classical learning vs. digitalization is an interesting topic to be discussed further and in depth [6]. Which one is more effective and efficient in

understanding students. Classical learning with the teacher in front lecturing and students listening without being allowed to say a word. It is a learning technique that has existed for two centuries.

Such teaching methods or techniques in the Dutch style are a transfer of knowledge which if studied by today's education can be called 'doctrine'. Where students only take the knowledge conveyed by the teacher who teaches without being able to think critically. Of course, learning like this must change. Where the world changes, the best learning must also follow according to the times. Maybe in the past you could say books were hard to come by. Even if it is obtained, the price is expensive and people who are lacking in economic terms are of course very difficult to access it.

There are also not many teachers, only a handful of people who have received education and are able or worthy to become teachers in schools. So from very limited conditions and 'teacher' knowledge in quotes collected in one person. Learning is arguably the way we know classical is very effective and efficient. But that was before, now classical learning tends to bore the students being taught. The changing times and children who are born in different times require treatment that is contemporaneous with themselves.

Then generation Z, who was born in the technology era between 1997-2012. These are children who have been using technology since they were young. By nature, generation Z children are designed to be fluent or expert in using technology. Therefore, teachers who teach generation Z children must follow the existing nature to maximize their abilities. In this case, the technology that is very powerful in the digital era is AI (Artificial Intelligence).

Where this AI can help humans in many ways ranging from those related to the creation of written text, images and videos [7]; [8]. Advances in the use of artificial intelligence are two blades. On the one hand, it can be a good opportunity for education. On the other hand, it is a challenge or threat to education itself. For this reason, a good teacher must learn this technology in order to have the maximum ability to teach children according to their age.

In an era where information is abundant and easily accessible like this. Teachers must often update existing developments even on social media. This does not mean that they have to stay in front of their devices for hours and drown in social media. However, just knowing the latest information is enough for teachers to keep updated on existing developments. This technology also allows students to find information quickly and easily at any time using AI [9]. Maybe in the past, teachers were the best rankers or graduates in their school or college. However, if they do not learn to update information today, then tomorrow they will become ignorant teachers. That's the sentence for teachers who don't want to or close themselves off from modern times.

Critical thinking is important and fundamental to face the digital era [10]. Especially when it comes to Islamic higher education. Critical thinking becomes a tool to filter and filter information independently when surfing social media and the internet. Improved reading precisely and accurately is also something that should be owned [11].

On the other hand, the use of AI can also make learning more interactive from the teacher's perspective. By utilizing AI to create apperception videos for example. Or help with the assessment process and many others. For this reason, this article was made to invite and open the eyes of teachers. Especially Islamic Religious Education teachers to utilize existing technology in classroom learning. In short, from the background above, it is hoped that this research will be useful and contribute to teaching teachers focusing on learning the use of AI in learning which will later be used to maximize learning in the classroom.

2. Method

In this study, researchers used a descriptive qualitative method with a netnography approach. Primary sources from scientific journals, literature, online media news related to research problems. The data collection method is carried out by reading, analyzing, and recording various literature materials, scientific journals, and online media news that are relevant to the fundamentals of the discussion. After that, it is outlined in a theoretical framework so that a conclusion can be drawn [12].
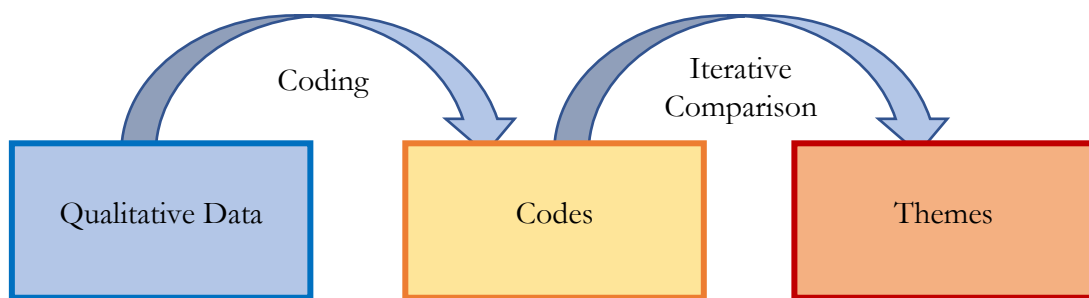

Figure : Analysis process

This netnography method is a relatively new approach to studying matters in cyberspace or cyber. For this reason, ethical virtue in its use is important to understand in order to avoid problems [13]. This includes social media and something that exists on the internet (cyber world) [14]. Qualitative methods are used to research culture, in this case human communities that have shifted towards computer-mediated virtual or digital worlds [15]; [16]. AI data and websites that are often used in the field of education are analyzed to see the impact on learning. Especially in Islamic religious education lessons. After that, conclusions are drawn about the opportunities and threats of using AI websites in school and classroom learning.

3. Results And Discussion

3.1. Results

This The following table will present the titles that have passed the selection along with the preliminary conclusions that have been made based on the selection of the selection of the articles below [17]; [18]; [19]; [20]; [21]; [22]; [23]; [24]:
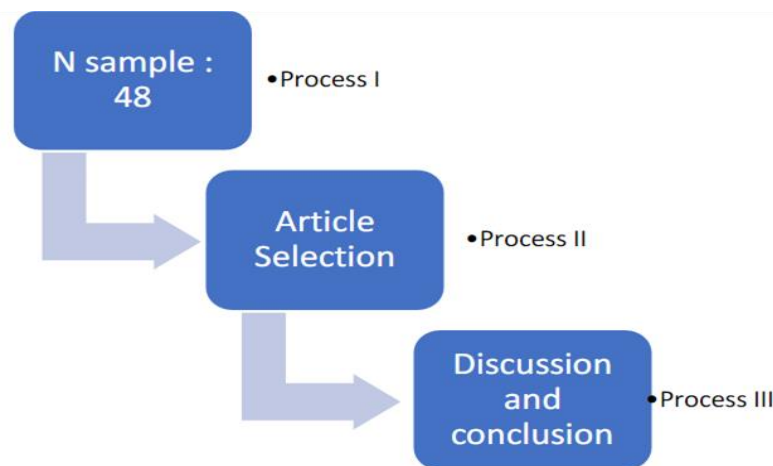
Figure 2. Procces Article Selection

JUDGEMENT	SUMMARY
Artificial Intelligence in Human Resources Management: Challenges and a Path Forward	In reality, artificial intelligence cannot replace or answer the complexity of *human resource management* needs in Indonesia.
Evolution of Artificial Intelligence Research in Human Resources	Research and use of artificial intelligence for *human resources* needs is not yet well underway
A Review Paper on Artificial Intelligence at the Service of Human Resources Management	There is still a need for changes in *human resources* management using artificial intelligence
Will Artificial Intelligence Take Over Human Resources Recruitment and Selections?	Some jobs can already be taken over by AI with a limited administrative approach
Introducing Artificial Intelligence into a Human Resources Function	There needs to be a long process until AI can be used for complex work processes
Human-Centered Artificial Intelligence: Reliable, Safe & Trustworthy	Collaboration between humans and artificial intelligence is still needed to achieve optimal work
Human-centered Artificial Intelligence and Machine Learning	A good artificial intelligence system is a collaboration of humans and technology
Collaborative intelligence: How human and artificial intelligence create value along the B2B sales funnel	Collaboration between humans and artificial intelligence can boost sales and sales
Bibliographical Analysis of Artificial Intelligence Learning in Higher Education: Is the Role of the Human Educator and Educated a Thing of the Past?	Although Artificial Intelligence helps a lot. But the ability to understand culture and psychology of AI is still limited
Artificial Intelligence and Law: An Overview	There is still a lot of misunderstanding about *artificial intelligence.*

4. Discussion

This In this discussion, researchers want to open with a sentence that is important to listen to. If the current era changes the way of learning that exists.

عَلِّمُوْا اَوْلَادَكُمْ فَإِنَّهُمْ سَيَعِيْشُ فِى زَمَانِهِمْ غَيْرَ زَمَانِكُمْ فَإِنَّهُمْ خَلَقَ لِزَمَانِهِمْ وَنَحْنُ خَلَقْنَا لِزَمَاِنَا

"Teach your children according to their times, for they live in their time, not yours. Indeed, they were created for their time, while you were created for your time."

This sentence contains a very deep meaning regarding children's education that knowledge is dynamic and adjusts to the conditions of the times. By understanding how children in the changing times and adjusting the existing learning conditions. Of course, it has more chances to be more advanced than children who are educated not to adjust to the times. The child's brain is the most sophisticated computer of its day. Do not blame the differences in learning in the past with the present in today's digital era. These changes naturally occur and cannot be avoided.

Islamic religious education teacher is a very noble profession. Not only in the world but also in the hereafter the responsibility. If a teacher who is responsible for the world hereafter teaches well and pleasantly. Then the students who are taught will be interested in Islamic religious studies. However, on the contrary, when the teaching is boring, only told to do questions in the book, lectures that make students sleepy. How can the learning enter the minds and hearts of students.

Today's Generation Z, which is accustomed to technology, must also be guided by existing technology. That's why the teacher's function is to guide the students. Existing learning should use technology and teachers must have abilities above their students. The inability to compete with the knowledge of their students in the field of technology, especially AI. Making students lack the knowledge that should be learned. The reason is that world education has now led to all-digital learning. However, learning in Indonesia especially is still taboo with the use of AI in classroom learning.

Teachers should have more skills than their students. When teachers are behind on how to use technology, in this case AI. Then teachers are more likely to be cheated or lied to by their students in terms of learning in the classroom. That is a fact that exists in the field. The advancements that exist make students able to complete tasks given by teachers quickly. Like making summaries, opinions, answers to questions. All of that is now easily accessible to find the answer.

The solution to the problem is to return to traditional methods of close reading, analysis and writing (literacy emphasis). However, the researcher does not want to discuss further about the solution of returning to traditional learning. Instead, we want to provide information on the use of AI for learning in schools using AI websites that will be useful for improving interaction and interactivity in learning [25].

In terms of the website and AI that the researcher listed in this article. Researchers have used it while teaching at school. Observations during teaching show that literacy skills and the use or utilization of tools on the website determine whether or not the results

will be good. For example, in today's digital era using a video maker or editing is the daily food of generation Z. However, whether the results are good or not is determined by the knowledge of students in knowing the website or tools for editing. Take a simpler example. When there is an assignment to make a power point. Whether the students' results are good or not is determined by their editing skills and knowledge of the tools and tools used to make power points.

For this reason, teachers' knowledge of technological tools in learning is very important. How can teachers demand their students to make good power points that can even move with complex animations. If the teacher when making a power point only uses the default power point application on his laptop. Of course this is very contrary to common sense. Demanding great and good students. Meanwhile, the teacher may actually need to be taught by his own students. For this reason, the importance of teacher knowledge of the use of AI and tools that support learning.

There are many tools and devices, AI-based or not, that support learning in schools. Some of them will be listed in this article to be used as lessons. As the researcher's experience in using these tools.

4.1. Presentation:

In classroom presentations, of course, each teacher has a different carrier when delivering material in the classroom. However, when the school at least has a projector / LCD to provide a larger image in front of the class. Of course a power point or PPT must already exist and be ready. The use that is usually used in terms of format and design is already in the application.

However, when you want better results and interactive use of other tools or applications in this case AI. There are several websites and applications that can be used and based on the experience of researchers. Such as ClassPoint AI, Beautiful.ai, Google slides, Slidesgo, Slides AI, Canva, Zoho Show, SlideBot, Prezi, Presentations.AI, PopAI. These websites and tools can be used for free or paid. Frequent and monotonous use. Researchers recommend looking for paid ones so that features and applications can be used to the fullest. Creativity in using tools and AI needs to be done to produce interesting and aesthetic powerpoints to attract the attention of the audience visually.

Pros   : Time efficient, attractive and professional-looking design and innovation.

Disadvantages: Expensive implementation, potential loss of human jobs, and lack of emotion and creativity.

4.2. Lesson Plan or Teaching Module:

Often creating a lesson plan or module is a dead end. So it is difficult to complete it. In the end, learning uses modules or plans like previous years. Of course, as a professional teacher, this kind of auto pilot should not happen. Making lesson plans will be easier when assisted by AI. However, do not follow it 100% without being criticized again.

In creating teaching modules, you can use Crello, Powtoon, Nearpod by combining the module format in each school. These AI applications help to create frameworks and

learning techniques that will be used in accordance with the teacher. Applications that people often use such as Canva can also be used to create teaching modules basically. Use creativity and style in making teaching modules this application is only a tool not the main one. The main thing in making teaching modules is the human brain itself.

Pros   : Can automate repetitive tasks, allowing humans to focus on creative and complex tasks.

Disadvantages: Format not yet in line with the latest curriculum (needs editorializing)

4.3. Scoring:

After the teacher finishes teaching and at the end of the chapter. To test the ability of students, of course, an assessment is needed. So that the development of students can be analyzed and reported later. Manual self-assessment will certainly take a lot of time and energy. For this reason, teachers must have knowledge of how to conduct assessments that are interesting for students and easy to input for the teachers themselves. AI can help in-depth data analysis, relevant curriculum development, and school administration efficiency [26].

There are various AIs for assessment such as the frequently used ClassPoint AI. Can be accessed through chrome easily. The advantages of this AI can read file data making it easier to create questions and assessments. Other AI applications such as gradescpe.com can also be used for assessment. Easily accessible and free tools such as google form. Can be used for assessment in classroom learning. In addition, AI such as: Digiexam, Synap, Classtime, FlexiQuiz, Online Exam Maker can also be used to support classroom learning.

Pros   : Speed of data analysis, ease of access, ease of porting to other devices.

Disadvantages: Assessment objectivity based on grades, attitude and behavior assessment is not detected.

Problem Generation:

In making questions, teachers are often constrained to integrate with technology and in the end return to using paper as a medium for exam questions. The use of websites or applications can be used to integrate learning in the classroom. There are many applications or tools that can be used. Like Quizizz can also use ClassPoint AI. Already using a gamification system linked to quizzes created by AI.

There is also an AI that can create questions quickly and easily. By using the document format AI will analyze and create questions automatically. However, it is still the function of humans or teachers themselves to edit again if there are errors both in sentences and in words. The advantages of using on the website can be accessed through chrome. Also has a special chrome extension to access via pining in the chrome corner.

This AI can be used to test students before the actual exam. So it saves time for teachers to create questions. And for learners can have more readiness for the exam. Teachers will have more time to analyze and evaluate learners' knowledge development. Compared to taking a few days just to create questions. The use of this question-making AI must be used wisely and appropriately.

Pros　　　　　　: Time efficient, less typos, grammatical and layout accuracy.

Disadvantages : The format of the questions has not varied from easy to difficult, HOTS questions are difficult to achieve in the questions.

4.4. *Illustration of Learning Media:*

In creating illustrations teachers can use the Dall e2 AI. This AI can create realistic images by entering commands using text descriptions. To help improve visuals in learners' understanding and absorption of interesting learning materials like watching an advertisement so that they are provoked to be more active in the classroom [27]; [28].

Pros　　　　　　: learning visualization, imagination, easy access, can be arranged as needed

Disadvantages : command prompt errors, difficulty describing commands using text

4.5. *Learning Video:*

To create short videos teachers can use Pictory.AI. In learning, examples are needed, especially in learning Islamic religious education. Illustrations in the form of visual videos can use AI. Such as illustrations of nature where God's creation is very extraordinary and great. Or natural disaster material and the consequences of human behavior.

Pros　　　　　　: Get analytical data on video performance, Resize videos for different platforms, Add video backgrounds, AI voiceovers, and subtitles

Disadvantages : Decreased creativity, difficult to edit advanced video formats.

The use of AI in learning in the digital era is easy and cheap. The data processing speed and creative power of AI machines are very capable. Human work is facilitated by the presence of AI. AI uses algorithms and complex mathematical models to analyze data, make decisions, solve problems, and learn from experience [29]. It needs attitude and wisdom in its use. Learning is shifting towards digitization. However, as smart as AI machines are. The human brain will be far superior to AI. The problem is how humans themselves utilize technology.

Remembering back to when digital calculators were invented with complicated codes and systems. Humans are facilitated by the presence of this technology. No need to memorize many mathematical formulas to solve mathematical problems. If you think back, humans have actually been left behind by the intelligence of calculators. However, humans who continue to learn and become smarter do not feel left out or threatened by their jobs. The reason is that modern humans will actually utilize technology to 'Transform' education and learning in the future [30].

This is also the case with AI technology that has been invented in recent years in the 21st century. The older generation may feel threatened by their jobs and so on. However, there is no need to worry about the new generation that has a different age and era from the older generation. In the future, Generation Z will find their own jobs with the loss of jobs eliminated by the presence of AI.

Hasn't it always been the case that jobs in this world disappear and change? As the times, trends, culture and human habits change. Of course, our best attitude is to be accustomed to the presence of AI. All we have to do is look for new opportunities that

exist now. No matter how far the world changes, living humans will continue to change with the times.

The same applies to the teaching profession, in this case Islamic education. Changes in children's learning styles and delivery methods change with each era. The difference in knowledge gap between eras that makes education stagnant and does not keep up with the times. Maintaining the "old"   status quo is what makes students not live in their era. Being a wise and knowledgeable teacher is the key and determining factor for the success of education in today's digital era.

5. Conclution

This along with the advancement of science that humans make in the field of technology, it also makes changes in education. Advances in educational technology are hampered by the desire to maintain the status quo (maintaining previous habits). This makes students not live and learn according to their era. The use of AI in today's digital age is familiar. Instead, learners must have the ability to use it and also be experts. Learners' expertise depends on how teachers teach in class and model how to use AI itself. In facing generation Z, teachers must have the knowledge and skills to use AI tools in learning. Islamic religious education learning can be integrated with technology. As other science lessons can be used with integration with AI. The classical method that only uses lectures as a technique for conveying learning material has deep criticism in today's digital era. For this reason, the use of AI is important to integrate and adjust to the current generation Z who live in the digital age. They live with technology in the cyber/maya world more than the real world. Accelerating the integration of education with AI will make learning more effective.

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