



Analysis of the Teacher's Role in Educating Students during the Era of Disruption

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ABSTRACT

In an age characterized by the widespread integration of technology, particularly artificial intelligence (AI), into various domains, including education, the significance of instructors has grown significantly. Teachers serve not simply as conveyors of knowledge but also as mentors, catalysts, and enablers in navigating the intricacies and unpredictability that impact the realm of education. A literature search was done using several databases, such as PubMed, Web of Sciences, EMBASE, Cochrane Libraries, and Google Scholar, to find out how teachers can have a big impact on the future of education and help students learn how to adapt to a changing world. Amidst a period of significant change, teachers play a vital role as educators, mentors, motivators, and facilitators. Their contribution is essential in ensuring that education stays pertinent and impactful and equips students with the necessary skills to navigate swift transformations. Teachers bear the principal duty of imparting pertinent knowledge, skills, and values that encompass a comprehension of AI technology. Additionally, they serve as mentors, assisting students in developing academic and professional objectives, and as motivators, fostering students' passion for acquiring knowledge. Furthermore, teachers serve as facilitators, empowering students to incorporate AI technology and other digital resources into their learning journey.

1. Introduction

The era of disruption is an era of deep and continuous change caused by technological developments, globalization, and rapid social change. In an era where technology such as artificial intelligence (AI) has penetrated almost all aspects of life, including education, the role of teachers has become increasingly crucial. Teachers are not only distributors of knowledge but also guides, motivators, and facilitators in facing the complexity and uncertainty that hit the world of education. Basically, teachers are the main architects in preparing the young generation to face a future full of challenges.¹⁻⁵ In this paper, the study explores the versatile role of teachers in facing an era of disruption. The study details how teachers act as educators who impart knowledge and skills, mentors who help students plan their future, motivators who inspire enthusiasm for

learning, and facilitators who help students integrate new technology and resources in their learning process. Through an in-depth understanding of this role, this study will better understand how teachers function as the front guard in ensuring that education remains relevant and effective in an era of disruption. Thus, this study aims to discuss the important role of teachers in shaping the future of education and preparing students to face an ever-changing world.

2. Methods

The literature search process was carried out on various databases (PubMed, Web of Sciences, EMBASE, Cochrane Libraries, and Google Scholar) regarding the important role of teachers in shaping the future of education and preparing students to face an ever-changing world. The search was performed using the terms: (1) "role" OR "teacher" OR "agent" OR

"change" AND (2) "education" OR "disruption era." The literature is limited to studies and published in English. The literature selection criteria are articles published in the form of original articles about the important role of teachers in shaping the future of education and preparing students to face a changing world, studies were conducted in a timeframe from 2013-2023, and the main outcome was the role The importance of teachers in shaping the future of

education and preparing students to face an ever-changing world. Meanwhile, the exclusion criteria were studies that were not related to the important role of teachers in shaping the future of education and preparing students to face an ever-changing world, the absence of a control group, and duplication of publications. This study follows the preferred reporting items for systematic reviews and meta-analysis (PRISMA) recommendations.

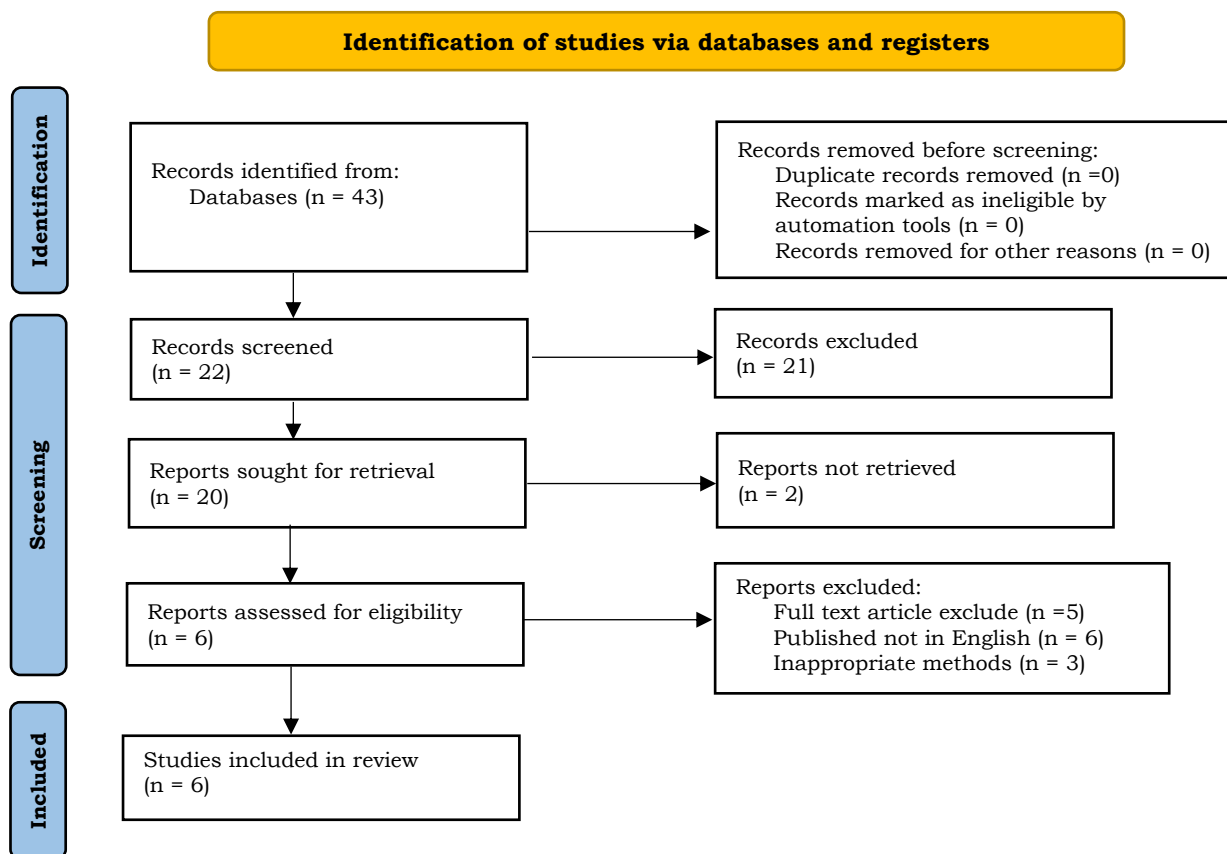


Figure 1. PRISMA flowchart.

3. Results and Discussion

Teachers as educators

Teachers need to introduce students to the basic concepts of AI technology, explain how AI works, and provide an understanding of the various applications of this technology in the real world. This helps students to understand the role of AI in modern society. Teachers must be able to integrate an understanding of AI into their curriculum, creating relevant and engaging lessons that link subjects to AI technology. This helps students see the connection

between course material and the technology they encounter every day. Teachers are also tasked with teaching ethical principles in the use of AI technology. They can discuss issues such as privacy, data security, and the social impact of AI. This helps students become responsible users and aware of the ethical implications of this technology. In addition to transmitting knowledge about AI, teachers must also help students develop critical thinking skills. They can encourage students to question the information they encounter, identify bias in data, and make informed

decisions in the use of AI technology. As educators, teachers play a central role in bringing understanding of AI technology to life, ensuring that students have a solid knowledge base, and helping them become aware and competent individuals in facing an era of disruption. In this way, teachers not only serve as distributors of information but also as important links between AI technology and meaningful education.⁶⁻¹⁰

Teacher as a guide

Teachers can introduce students to the various career options available, including those related to AI technology. They should help students understand the opportunities that may exist and identify interests and talents that can help students formulate their career goals. In providing guidance on educational pathways, teachers need to understand the various pathways available, including formal education, technical training, and distance education. They should also help students understand the requirements, pros and cons of each pathway, and how to best achieve their academic goals. Teachers also need to guide students in developing adaptation skills and lifelong learning. They can help students understand that in an era of disruption, continuous learning and adapting to change are key skills required. In the face of uncertainty caused by technological and economic changes, teachers can provide emotional support to students. They can help students feel comfortable with uncertainty, teach problem-solving skills, and facilitate the development of mental resilience. Teachers must also act as a liaison between the world of education and the world of work. They can organize meetings with professionals, industry visits, or practicum projects to give students direct insight into the world of work they face. By being effective mentors, teachers help students develop their vision and goals and provide the tools necessary to achieve them, especially in an environment full of uncertainty and change, such as the era of disruption. In this case, the teacher is not only a source of knowledge but also a guide in the student's educational and career journey.¹¹⁻¹³

Teachers as motivators

Teachers must work to develop students' self-confidence. They can provide constructive feedback, recognize student achievements, and encourage them to pursue their goals. This helps students feel confident in their ability to cope with change and meet challenges. Teachers need to motivate students to have a passion for lifelong learning. They can teach students that learning is a continuous process and that knowledge is power. This will encourage students to always seek new knowledge and adapt to technological developments. Teachers can support and encourage students to think creatively and innovatively. They can provide challenges and projects that encourage students to seek new solutions to existing problems. This helps students feel motivated to develop their creative abilities. Teachers must appreciate students' hard efforts, regardless of the final result. They can teach that failure is part of the learning process, and that effort is something to be rewarded. By rewarding effort, teachers help students maintain enthusiasm for learning even when facing difficulties. Teachers can also be good listeners and provide emotional support to students. In facing changes and challenges, students may experience stress or confusion. Teachers who are understanding and emotionally supportive can help students feel more motivated and comfortable. By playing the role of a strong motivator, teachers help students feel motivated to learn, adapt to change, and reach their potential. They are important agents in forming students' positive mental attitudes and confidence in facing change in an era of disruption.¹⁴⁻¹⁶

Teacher as facilitator

Teachers must be able to select digital resources that are appropriate for their learning objectives. This includes apps, software, and online learning materials. They must also have the ability to evaluate the quality and relevance of these resources. Teachers must be able to develop curriculum that include AI technology and digital resources. This includes not only relevant subject matter but also teaching methods that utilize this technology effectively. Teachers also need to receive appropriate training in

the use of AI technology. They should have a solid understanding of how to use these tools and provide support to students who may be experiencing difficulties. Teachers can encourage students to use AI technology for creative projects. This could include program development, digital content creation, or data exploration. By encouraging creativity, teachers help students see AI technology as a tool that can be used to achieve larger goals. Teachers must be able to use data generated by AI technology to monitor student progress. They can analyze this data and provide more timely and targeted feedback to students to help them improve their learning outcomes. By acting as skilled technology facilitators, teachers help students harness the potential of AI technology in education. They create a learning environment that encourages students to become skilled in the use of this technology, which is critical in facing an era of disruption. With thoughtful technology integration, teachers help students develop relevant skills and prepare them for a future filled with advanced technology.¹⁷⁻²⁰

4. Conclusion

In an era of disruption, the role of teachers as educators, mentors, motivators, and facilitators is crucial in ensuring that education remains relevant and effective and equips students with the skills needed to face rapid change. Teachers have the primary responsibility for transmitting relevant knowledge, skills, and values, including an understanding of AI technology. They also act as mentors who help students formulate academic and career goals and as motivators who inspire students' enthusiasm for learning. In addition, teachers act as facilitators who enable students to integrate AI technology and other digital resources into the learning process.

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