



The role of artificial intelligence in improving the quality of learning outcomes

Case Study

Ministry of Social Affairs - Social Security Offices

A Project Report Submitted in Partial Fulfillment

of the Requirements for the Degree of

BACHELOR OF (Project Management)

Prepared by the researcher

Amir Ayub

Table Of Contents

Abstract.....	Error! Bookmark not defined.
Acknowledgment.....	Error! Bookmark not defined.
Introduction.....	i
Problem Statement.....	i
Study Questions.....	i
Objectives Of the Study	ii
The Importance Of Studying.....	ii
Study hypotheses.....	iii
The limitations of this study included	iii

Introduction

Artificial intelligence (AI) has the potential to transform the learning and teaching process, making it more personalized, engaging, and efficient. AI in education involves the utilization of AI technologies like machine learning and natural language processing to enhance the overall learning experience. This includes the use of algorithms to analyze data, recognize patterns, and make predictions, allowing educators to tailor learning experiences for individual students. The advantages of incorporating AI in education are substantial. Personalized learning, a key benefit of AI in education, can result in improved student outcomes as students can learn at their own pace and in a manner that aligns with their unique learning styles. Intelligent tutoring systems, chatbots, and automated grading and assessment can enhance efficiency, save teachers' time, and offer more precise and consistent feedback. Nevertheless, there are challenges associated with the implementation of AI in education. Issues such as privacy and security concerns, lack of trust, cost implications, and potential biases must be addressed. Ethical considerations, including ensuring accessibility, transparency, and fairness in AI-based education systems, also need to be carefully considered. Despite these challenges, the potential impact of AI in education is vast. AI can facilitate improved data analysis, empowering educators to make informed, data-driven decisions. This review highlights the role of AI in education management and promotion, illustrating the profound effect of AI on the education sector.

Problem Statement

The research problem was defined in the following main question: “What is the role of digital platforms in improving the quality of learning outcomes?” For universities? "

Study Questions

A group of sub-questions branch out from the main research problem, which are set out as follows:

- What is the role of digital platforms in developing the educational process?
- How can e-learning platforms address teaching obstacles?
- Do digital platforms contribute to improving the performance of their users, including professors and students?

- What is the quality of educational outcomes resulting from the application of digital education platforms?

Objectives Of the Study

The research aims to:

- Identifying digital platforms and demonstrating their value in improving the quality of educational outcomes.
- Identifying the elements for the success of implementing electronic platforms directed to education.
- Studying the experience of some Saudi universities in using digital platforms during the Corona crisis
- Providing a generalizable reference model on the advantages of applying educational digital platforms.

The Importance Of Studying

It is expected that the results of this research will benefit:

- **Professors:** Highlighting the importance of using electronic platforms, creating educational content, and preparing lectures and meetings Encouraging distance learning. And meetings via electronic platforms in light of the spread of the Corona pandemic Juha from
- **Students:** Research contributes to supporting continuous learning and lifelong education, and motivating students to engage in experiences During e-learning, creating a learning environment suitable for completing studies and addressing academic failure and dropout. For electronic platforms after the Corona pandemic
- **Universities and educational institutions:** Urging universities to intensify interaction To put pressure on the costs of education and on the academic level and on the economic level and benefit from the advantages By improving the quality of learning outcomes and at the research level by facilitating access to and benefit from information.
- **Administrative and technical staff:** Contributing to providing electronic services remotely, reducing work pressure and overcoming obstacles Logistics (lack of offices, equipment, etc.).

- **Researchers:** Encouraging experts and specialists in the field of education to pay more attention to studying digital platforms and highlighting their role Economic, social and environmental.

Study hypotheses

The study assumes what

- Digital platforms play an essential role in developing the educational process.
- E-learning platforms address traditional teaching obstacles.⁶
- Digital platforms contribute to improving the performance of their users, including professors and students.
- The application of digital education platforms positively supports the quality of educational outcomes

The limitations of this study included

1. Objective boundaries: Objective limitations were limited to the impact of applying digital education platforms on the quality of learning outcomes For Saudi universities .
 2. Spatial boundaries: The field scope of this study included 4 government universities in Saudi Arabia(King abdulaziz university, king saud university, king faisal university, Umm AL-Qura university).
- . Time limits: The study took place during the academic year 2024 in period from 24/2/2024 to 19/4/2024