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Cours Title: Research Methodology in
Computer Science

Assignment #2

Artificial intelligence in medicine



The impact of artificial intelligence applications on the quality of healthcare

problem statement

Artificial intelligence is one of the important fields that has attracted the attention of many scientists and researchers as this field has witnessed continuous developments that have achieved important impacts on the future of humanity at all levels due to its focus on the participation of the human element then assisting them in their various daily tasks in their professional social health and other lives (tamasic, 2019).

The current situation that the world is experiencing due to the emergence of the new coronavirus reminds us of the importance of health and the role that health sectors play in managing the spread of diseases.

The healthcare sector mainly focuses on preventing the spread and outbreak of disease and improving the health of communities so we must respond to all variables that occur in a way that affects improving the level of health care provided to patients as government sector organisations especially health sector organisations, face fundamental changes new trends and recent developments that we see in various fields despite the importance of the health sector in its vital role in providing healthcare to citizens the problems facing it are increasing and standing in the way of its growth prosperity and development as a result of the multiple social psychological biological and technical factors that surround medical personnel in the health sector many public sector organisations suffer from obstacles in achieving their goals and the goals of society since the health sector is one of the important sectors to which the rest of the productive and service sectors are linked the problem

Facing this sector takes on a greater and deeper specificity due to the increased interest of those requesting such services with the necessary quality (Abbas, 2019)

Based on the researchers interests and his experience with the reality of hospitals through his work and meeting some of the medical staff in them and their emphasis on the low levels of service provided by some medical staff to patients the defect in Healthcare is also confirmed by what the Minister of Health stated that the Ministry of Health has begun implementing a series of measures that aim to improve in favour of improving health care services provided to citizens(AI- Dustour newspaper 2019). Because artificial intelligence is one of the systems that is rarely used in hospitals the researcher believes that its limited use or failure to use it appropriately in Ministry of Health hospitals has led to a decline in the quality of healthcare the problem of the study arises in its attempt to answer the following questions:

1- to what extent is artificial intelligence in its dimensions applied in Ministry of Health hospitals

2-what is the level of healthcare quality and its dimensions in the Ministry of Health hospitals?

3- what is the impact of artificial intelligence applications on the quality of healthcare in Ministry of Health hospitals?

Objectives of the study

this study aims to identify:

1- The extent of application of artificial intelligence in the hospitals of the Ministry of Health.

2-The level of quality of healthcare in the hospitals of the Ministry of Health.

3- Identify the impact of artificial intelligence applications on the quality of healthcare in Ministry of Health hospitals.

4- Arriving at a set of recommendations in light of the results that will be reached.

The importance of studying the importance of the study can be clarified through its theoretical importance in practical importance in addition to highlighting the contributions of this study and also its difference from other previous relevant studies this can be explained through the following:

First: scientific importance

the importance of this study stems from the novelty of the topic and the importance of the variables investigated in the research community through studying the impact of artificial intelligence applications on the quality of healthcare in the hospitals of the Ministry of Health and providing the Arab library in general and Saudi Arabia in particular with a modern reference as the results of this study bring a new addition to the fields of business administration in general and hospital management in particular which constitutes a new reference for other subsequent studies.

Second: practical importance

The practical importance of this study is highlighted in shedding light and providing clear and comprehensive information about the reality of artificial intelligence applications and the level of quality of healthcare in the Ministry of Health hospitals in addition to identifying the impact of artificial intelligence applications on the quality of healthcare in the Ministry of Health hospitals and the contribution of the results and recommendations of the study to increasing awareness of medical

personnel about the necessity of quality healthcare services in Ministry of Health hospitals through the application of artificial intelligence.

We benefited from previous studies, by reviewing them and how to employ theoretical literature in them choosing the appropriate scientific in helping to build the current study tool by taking method for this study advantage of the tools used in previous studies in addition to how to choose the study sample inappropriate statistical methods.