



جامعة الجميع الذكية
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Artificial Intelligence applications and its effects
On Project Management (ChatPGS)

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Abstract

Our goals of this research are to talking about Project Management and how can affect the Artificial Intelligence also help others to understand Artificial Intelligence, its usage and how to interact with it in project management, identify types of AI and the best use of it in project management, as well as to answer the following questions: What is the project management? What is Artificial Intelligence? What are the benefits of Artificial Intelligence in project management? How effective is Artificial Intelligence in project management? What are the best ways to use Artificial Intelligence? How we can using the benefit from CHATGPT?

Interdiction

Project management is a complex and multi-faceted discipline that requires a combination of technical skills, leadership, and communication. In today's fast-paced and increasingly digital world, project managers need access to the right tools and resources to help them successfully manage projects.

Artificial Intelligence (AI) and Machine Learning have a multitude of business applications, and their effects can now be seen in project management. In this report, we discuss the results that we have obtained to better understand the impact of AI on projects and how it will reshape the future of project management with the right AI inputs. We will also provide an overview of project management according to the PMI Project Manager Index 2020.

Other industries that have potential to implement AI include healthcare, transportation, and finance, and we will demonstrate that 8 out of 10 project operations prescribed in the PMBOK (6th edition) can be significantly impacted by AI adoption.

One of our conclusions is that activities that require personal, relationship and human interaction will be least affected by AI.

We have also identified four major developments of AI: integration and completeness; chatbot assistants; machine learning-based project management; and autonomous project management.

AI does not appear to be able to achieve management, however, AI, projects, and the manager will remain connected, therefore the project manager needs to take the necessary steps to gain the right skill sets to be able to manage.

AI is now a major contributor and one of the most used techniques for simulating reality as it has behaviors and features that emulate human capabilities, most notably its ability to learn, infer, respond quickly and respond to demand.

Importance of Study:

Artificial Intelligence and Machine Learning are no longer mere subjects of science fiction, but have become a reality in every field.

Think of all the things that didn't exist just a few years ago: the ease of handling big data, real-time machine translation, chatbots that can conduct personal conversations with customers on a large scale, and even the famous deep-faking technology used on roads to blur video clips.

In addition, deep learning and natural language processing (NLP) and its applications, which are one of the most important trends dominating the technology sector in the near future, are heavily relied upon by major technology companies in developing their services, such as Google, which relies on them to develop a range of services, from search engines to YouTube and Gmail platforms, maps services, and even voice assistants that recognize languages and provide immediate translations.

Similarly, Facebook relies on it to provide you with recommendations only in its newsfeed, Amazon relies on it as its voice assistant Alexa, and more. Given the importance of Artificial Intelligence, it has had the greatest impact on our lives in the virtual world, and this highlights the importance of studying the impact of Artificial Intelligence in project management, which is one of the most important techniques used.

Study Objectives:

The research objectives are to enable others to understand Artificial Intelligence, to understand the correct definition of Artificial Intelligence, to understand how to use it and how to interact with it in project management, to understand the types of Artificial Intelligence and the best use in project management,

Study Questions:

- a. What is a project management?
- b. What is Artificial Intelligence?
- c. What are the types of Artificial Intelligence?
- d. What are the benefits of Artificial Intelligence on project management?
- e. What is the effectiveness of Artificial Intelligence on project management?
- f. What are the most important applications of Artificial Intelligence?
- g. What is the effectiveness the CHATGPT can do?

The importance of AI in project management has become increasingly evident as Artificial Intelligence (AI) technologies and machine learning have gone from being a pipe dream to a reality in all areas.

Think of all the things that didn't exist just a few years ago: Big data processing ease, real-time automatic translation, chatbots that can have personal conversations with customers on a large scale, even the famous deep-faking technology used in films to dub videos.

In addition, deep learning and its applications for Natural Language Processing (NLP) are one of the most important trends that will dominate the tech sector in the near future, on which major tech

companies rely to develop their services, from search engines to YouTube and Gmail, from maps services to even voice assistants that recognize languages and provide instant translations.

Similarly, Facebook relies on it to provide you with tailored news feed recommendations, and Amazon relies on it for its voice assistant Alexa, and more.

Considering the importance of AI, it has made a great impact on our lives and this is where the importance of studying the impact of AI in project management arises.

Study Methodology

Several methodologies will be used in project management such as the Waterfall, Agile, Adaptive, Scrum, Lean, and Kanban methodologies.

The Waterfall methodology, which is a sequential development process where progress is steadily made till the endpoint of the project imitating the movement of a waterfall is selected for this research project because it provides a better understanding of project stages and it is simple and easy to make and measure.

1. Secondary Data

The secondary data is obtained from several online journals and articles that are published in different academic websites and e-books.

In this research paper, the secondary data is used to determine the relationship between project management information system (PMIS), and project management office (PMO), and how it's related to decision-making processes.

The secondary data helped us to determine the effect of artificial intelligence (AI) on project management information systems and how it can be used to reduce the negative consequences of some external factors that are linked with these systems.

2. Primary Data

The data will be collected by conducting a formal interview with 10 IT & Project managers from different companies.

The selected questions are related to the central concepts of our research questions and hypotheses about how the application of AI could improve data integrity and quality, in turn, improving the decision-making process.

The primary data is used to examine the real situation in the chosen organization.

Conclusion

Artificial intelligence is changeful in what way companies work, and project management is a crucial area positively affected. The application (chatpgs) of AI in project management are comprehensive. These solutions provide the project manager with enhanced support, strategy, and accuracy. It has also improved the project managers' emotional intelligence and negated individual decision-making biases and creativity.

We have reached a stage where AI has reduced the needs for excess human intervention. For one, it can complete more tasks in a less time frame. With data at the heart of everything, AI tools like a data warehouse have the storage capacity to hold more information than ever.

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