Libyan International Medical University

Contemporary Issues in Project Management:
Artificial Intelligence & Project Management

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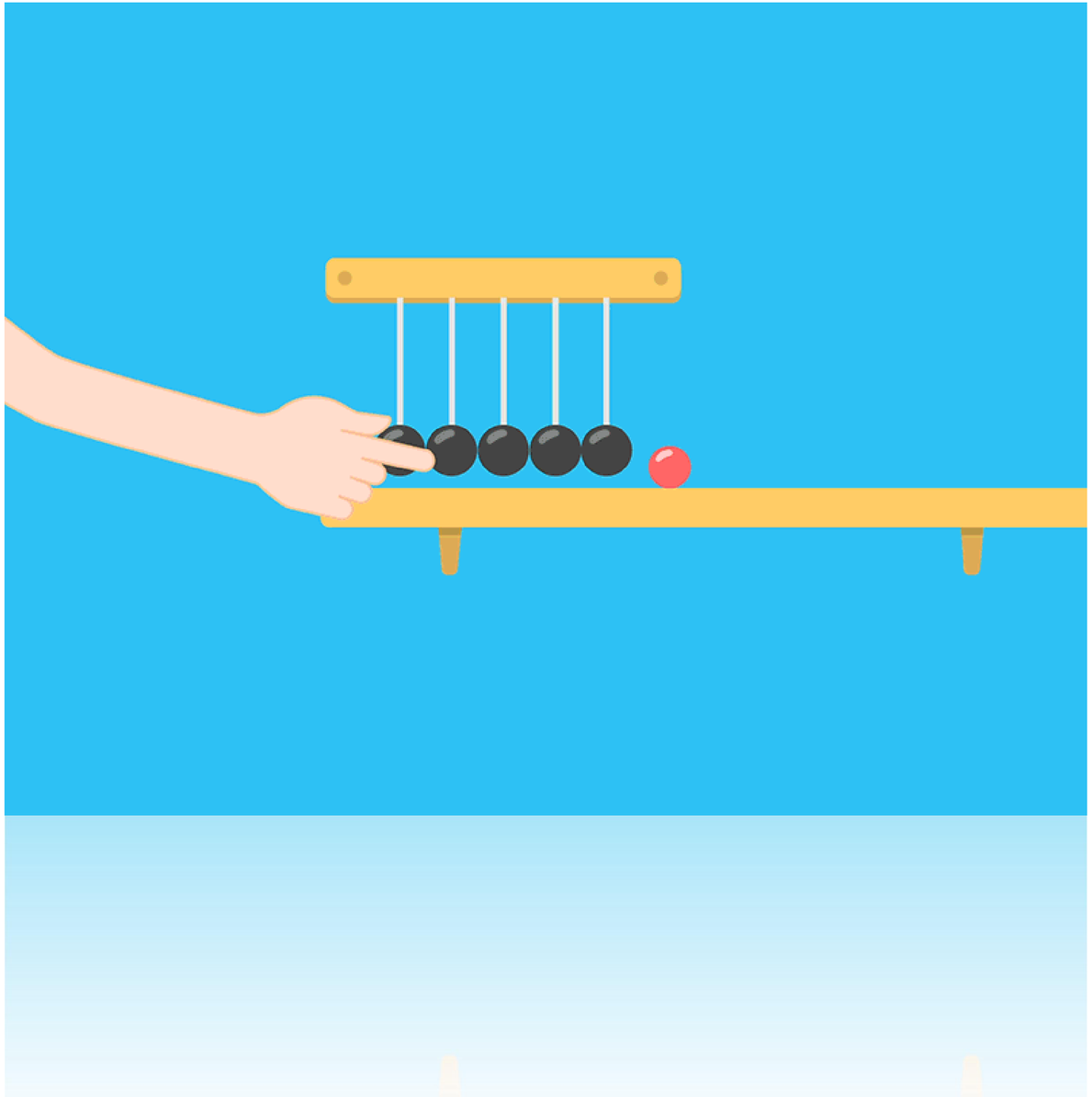


Introduction

“a branch of the computer science field in which scientists are attempting to develop intelligence within computer sciences.”

-Nilsson

As AI frameworks, algorithms, robotics, cognitive instruments, and other smart technologies get more current and powerful, practically every job is being reworked, resulting in what many refer to as th

Project Management

“temporary endeavor undertaken to create a unique product, service or result.”

The Project Management Institute (PMI, 2018)

Fundamental of Project Management

1- Project Initiation

2- Project Planning

3- Project Execution

4- Project Monitoring and Control

5- Project Closure

Future of Project Management

Artificial Intelligence

“the art of creating machines that perform functions that require intelligence when performed by people”

Russel and Norvig (1995)

Types of Artificial Intelligence

- Artificial Narrow Intelligence (ANI):

ANI, also known as Powerless AI, is a type of AI that was developed to perform a specific task and can specialize in a narrow range of tasks.

- Artificial General Intelligence (AGI):

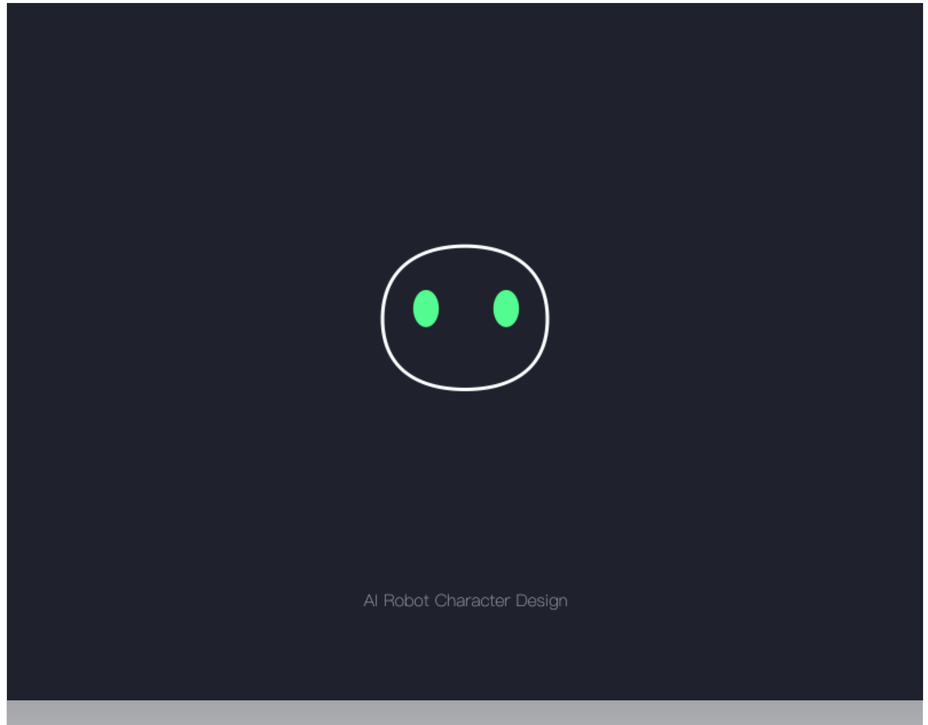
AGI is known as Human-Level AI. AGI as “thinking machines” was first proposed by Alan Turing.

- Artificial Super Intelligence (ASI):

frameworks are expected to be the type of AGI frameworks that may develop exponentially to replace individuals in virtually every sector, such as counting science, cognitive thinking, and social abilities.

Artificial Intelligence Current Use in Project Management

A few project management problems and difficulties have been identified that could be supported by artificial intelligence systems. As a result, there is a huge opportunity for AI and other technologies to be used to improve the efficiency of project managers' day-to-day work.



2 types

Of Artificial Intelligence Usage in Project Management

- Identification of critical performance factors:

  1. Neural Networks.

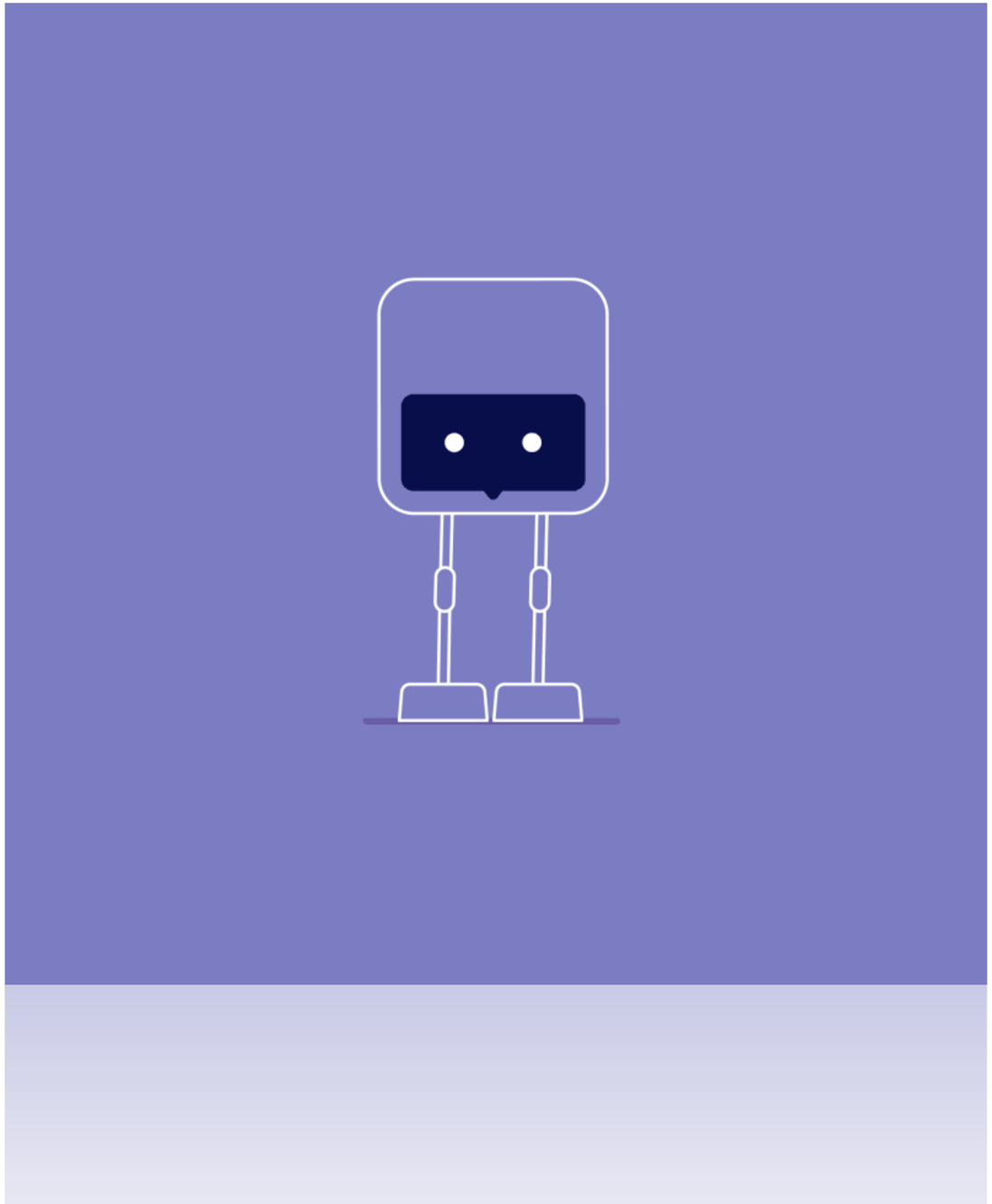
  2. Genetic Algorithms.

- Project performance forecast:

  1. K-Means Clustering.

  2. Bayesian Model.

  3. Support Vector Machine.



Implementing AI for Project Management in Organizations

-To start with developing a plan and tactics for using AI in a potential field of work.

-To implement training programs.

-AI specialists and engineers should be employed.

-To achieve correct matching of needs-based development.

5- Challenge for the Successful Implementation of AI in Project Management

Technical Project Management: monitoring status and providing data-driven experiences and projections based on past project databases.

Strategic and business management: assist in parameter design, identifying interdependencies, and determining trade outcomes.

The Role of Leadership: stimulate candidate selection by providing a shortlist or positioning based on a defined set of requirements and designs.

The Project Manager of the Future

- Leadership
- Emotional Intelligence
- Negotiations
- Storytelling
- People and stakeholder management
- Empathy
- Nonverbal and Verbal Communication

80%

Of the schedule work will be skipped by 2030, by integration and automation that delivered by AI.

Chatbot Assistant

this option allows AI to replace mental tasks such as scheduling a regular meeting, thinking, assessing people's feelings, and responding to a few basic addresses.

Decision making

Machine learning-based project management which might take the form of "experience" from previous data and give project managers decisions.

Helicopter perspective

Autonomous Project Management represents a high level of AI. As a result, AI can proactively gather the data needed to assess and monitor the project.

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Thanks