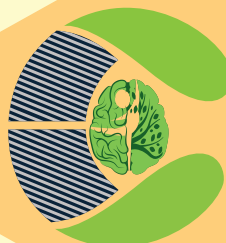


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# Robotic Process Automation: A Business Automation Revolution

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Automation has been revolutionizing work domains with a storm. Its work efficiency and promising result outputs have led the industries to invest their faith and Monet in RPA. Let us take a look at what exactly is RPA and how it functions to have given a much-needed boost to the world.

## Keywords

- Robotics
- Automation
- Revolution
- Development
- Process

## Introduction:

Robotic Process Automation uses the software with Artificial Intelligence and Machine learning capabilities that can handle high volume redundant tasks, which previously required a lot of human effort. E.g.: making daily calculations, addressing queries, transactions, etc. Today, several domains of work deploy RPA, like Banking and Finance, Customer relationships, Human Resources, insurance agencies, IT integration processes, sales, marketing, management, etc. RPA offers immense growth to a project within constrained periods,

as a result, increasing its outputs and benefits. These blooming industries and business companies, as a result, accelerate the economic growth of the nation as well.

## An Example

For a better understanding, we can consider an employee, who is working in an agency. His main agendas for work is to maintain a daily excel sheet of the companies with which the agency is dealing. Handling monetary transactions, invoices, liabilities, cheques, etc. and jotting down important information like name of the company, date of processing, invoice ID, etc. At the end of the day, he needs to mail this sheet and other information to his boss. Over a period of time, when the company grows, he finds this task to be more tedious. In

order to reduce the time and effort required to complete the task, he can use RPA. A bot that can transfer information from invoices to an excel sheet, attach other relevant reports and mail it to the authorities at a set time every day.

## Some Misconceptions

RPA does not involve any humanoid robot. Instead of bearing a physical form or similarities to humans, it is just a normal BOT (or, a machine). It also does not possess any independence in relation to logical/operational functions, which means that it does not have a brain of its own. Hence, it cannot replace humans; neither can it replicate human functions. It is a bot that has the capability to perform certain tasks; it is assigned to do, on our commands.



### Working Mechanism RPA

The functioning of RPA includes 4 stages.

**First- The Planning Phase:** It includes collecting the processes and functions to be automated. It also includes deciding the test objects, and approach which will lead the project.

**Second- The Development Phase:** Making automation workflows in accordance with the approach decided. There are several tools required to meet the desired results while recruiting RPA. These tools/software apps help in the configuration and automation of the bot functioning. Some of these are- PEGA, Redwood, Automation Anywhere, Ui path, blueprism, etc.

### Third- Deployment and Testing Phase:

One of the crucial phases of the RPA, since it ensures that our bot is bug-free. If any defects and abnormalities are found, they can be clarified and eliminated in this stage itself.

### Fourth- Support and Maintenance Phase:

This stage involves the updating and monitoring of the product on a timely basis. It is when a product is released for human use; it needs to be deployed amongst the consumers correctly.

RPA aids us through reducing the time required for performing the task, i.e. results expected in a year are achieved within a quarter; and boosts business continuity.

It also reduces the cost of the task, By using RPA, we can expect error-free and continuous results. This also ensures us that operational risks would be lesser. All of this in turn satisfies the customer.



RPA is advantageous as it offers reduced training costs, reduced utilization of IT resources, easier software data transfers. Although, it has employed 9% of the global workforce, yet RPA is being criticized for decreasing human employment options. With increasing automation, the work left to be performed by humans has significantly reduced. It is expected to generate about 223 million unemployed people in the upcoming years. Therefore, although RPA is very beneficial for a company altogether, but on the level of human employment and value, it is a growing concern.

### References:-

- <https://www.youtube.com/watch?v=9URSbTOE4YI>
- [https://en.wikipedia.org/wiki/Robotic\\_process\\_automation](https://en.wikipedia.org/wiki/Robotic_process_automation)



**Arushi Verma** is a third year; currently pursuing B.tech in Biotechnology from Amity University (Noida). I am interested in exploring technology and the internet, as it has a lot to offer. I like reading and painting as well. I believe that cybernetics and the internet is like a ball of strings which acts like a mediator, and connects several disciplines of our society. As a result, we can all relate to each other better and help different people through our own knowledge.

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## Annexure I

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SIMILARITY %		MATCHED SOURCES		GRADE	
SLNo	LOCATION	MATCHED DOMAIN	%	SOURCE TYPE	
7		8		A	
1.	assets.kpmg		2	Publication	5. www.studocu.com <1 Internet
2.	www.ijrsd.com		1	Publication	6. www.dx.doi.org <1 Publication
3.	pdfs.semanticscholar.org		<1	Publication	7. bmcgenomics.biomedcentral.com <1 Publication
4.	Biodegradation of chlorinated phenolic compounds by AP-1996		<1	Publication	8. Adjustment in the urban system The Tasman Bridge collapse and its eff by Trevo-1981 <1 Publication

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### Reviewers Comment

**Reviewer Comment 1:** The article has explained about the Robotic Process Automation, its functioning, and how it has helped in boosting the world along with examples, its misconception and working mechanism.

**Reviewer Comment 2:** The article focuses on Robotic as its major theme. It reduces the misconception about Robots and speaks about Robotic Process Automation (RPA). The author has considered a one-sided view of Robotics, addition of the problems that could arise with RPA have been duly neglected.

**Reviewer Comment 3:** Even though the article is very short and crisp yet all the relevant information to the theme is provided. The article brings to picture the benefits of RPA along with the working mechanism of it.



### Editorial Excerpt

The article has 7% plagiarism which is an acceptable percentage for publication. The comments related to this manuscript are noticeably related to the Robotic Process Automation (RPA) and its growing need in several domains. RPA reduces the cost, time and labor force required for the task to be accomplished. In less time, it offers greater returns. Its working is conducted through four different stages, which work synchronously to each other. It is a part of a revolution which is still ongoing, and its future requirements and growth are promising. After editorial board observations and remarks the article has been earmarked and finalized under the "Theme Based Paper" category.

### Acknowledgement

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### Disclaimer

All views expressed in this paper are my own, which some of the content are taken from open source websites for the knowledge purpose. Those some of I have mentioned above in the references section.



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