



## **EVALUATION OF INTERNSHIP REPORT**

### **B.Tech: III Year**

**Department of Computer Science & Information Technology**

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**Branch & section : CSIT-2**

**Roll No : 0827CI201099**

**Year 2022-23**

**Department of Computer Science & Information Technology**  
**AITR, Indore,**



**ACROPOLIS INSTITUTE OF TECHNOLOGY & RESEARCH, INDORE**

Department of Computer Science & Information Technology

**CERTIFICATE**

Certified that training work entitled “*Robotic Process Automation*” is a bonafide work carried out after fourth semester by “***Kunal Pratap Singh Pawar***” in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Information Technology from “**Prof. Simarjeet Singh Bhatia**” Acropolis Institute of Technology and Research during the academic year 2022-23.

*Name and Sign of Training Coordinator*

*Name & Sign of Internship Coordinator*

## ACROPOLIS INSTITUTE OF TECHNOLOGY & RESEARCH, INDORE

Department of Computer Science & Information Technology

### **ACKNOWLEDGEMENT**

I would like to acknowledge the contributions of the following people without whose help and guidance this report would not have been completed. I acknowledge the counsel and support of our training coordinator, ***Prof. Simarjeet Singh Bhatia*** (*Prof.*, CSIT Department), with respect and gratitude, whose expertise, guidance, support, encouragement, and enthusiasm has made this report possible. Their feedback vastly improved the quality of this report and provided an enthralling experience. I am indeed proud and fortunate to be supported by him/her. I am also thankful to *Dr. Shilpa Bhalerao*, H.O.D of Computer Science Information Technology Department, for her constant encouragement, valuable suggestions and moral support and blessings. Although it is not possible to name individually, I shall ever remain indebted to the faculty members of CSIT Department, for their persistent support and cooperation extended during this work.

Kunal Pratap Singh Pawar

0827CI201099

# ACROPOLIS INSTITUTE OF TECHNOLOGY & RESEARCH, INDORE

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# INTRODUCTION

Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage software robots that emulate humans actions interacting with digital systems and software. Just like people, software robots can do things like understand what's on a screen, complete the right keystrokes, navigate systems, identify and extract data, and perform a wide range of defined actions. But software robots can do it faster and more consistently than people, without the need to get up and stretch or take a coffee break.

Robotic process automation streamlines workflows, which makes organizations more profitable, flexible, and responsive. It also increases employee satisfaction, engagement, and productivity by removing mundane tasks from their workdays.

RPA is noninvasive and can be rapidly implemented to accelerate digital transformation. And it's ideal for automating workflows that involve legacy systems that lack APIs, virtual desktop infrastructures (VDIs), or database access.

In order for RPA tools in the marketplace to remain competitive, they will need to move beyond task automation and expand their offerings to include intelligent automation (IA). This type of automation expands on RPA functionality by incorporating sub-disciplines of artificial intelligence, like machine learning, natural language processing, and computer vision.

Intelligent process automation demands more than the simple rule-based systems of RPA. You can think of RPA as "doing" tasks, while AI and ML encompass more of the "thinking" and "learning," respectively. It trains algorithms using data so that the software can perform tasks in a quicker, more efficient way. As artificial intelligence becomes more commonplace within RPA tools, it will become increasingly difficult to differentiate between these two categories.

## **OBJECTIVES**

1. To prepare students with the technical knowledge and skills needed to automate the repeated tasks performed with the help of a software.
2. To prepare students that can plan, implement, and automate the mechanisms to reduce the workload of users.
3. To prepare students that can identify, analyze, and design the automation where the task is continuously repeated by a user.

## PROJECT DETAIL

**Project Proposal:-** “DataExtractorBot”

**Project Category:**

- a) Automation
- b) Desktop Application

**Problem Statement:**

*Design a desktop application bot using RPA which reduces the manual work of filling the hand-written data from student admission to the excel sheet*

**Scope :**

*This bot can be used in schools and colleges to fetch out the hand-written data from admission form and insert them automatically into the excel file. The receptionist just have to scan that hand-written forms and then the important details of all those forms will be filled into a single excel sheet by the “DataExtractorBot”.*

**Specific Objectives:**

*A software automation that extracts data from hand filled application forms, builds a excel file out of it and generates reports through analysis of the extracted data.*

**Stake Holders of Project:**

*The receptionists who are filling the data manually into the excel from the handwritten forms.*

**Background:**

*Normally a receptionist will manually read the data from admission forms and insert it into the particular column of excel sheet and repeat this process for all the fields and then for all the forms. The bot performs the same task first by reading scanned admission form and then performing OCR to extract data and store into data table then using excel automation, we fetch the collected data into excel sheet.*

**Review of Literature:**

*There is no previous published literature on this type of problem statement where RPA was used to automate the process of data reading and insertion into the excel sheet from hand written data in Admission forms.*

**Whether the Implementation and deployment of the project idea (yes/no)**

- a) *Has Social benefits.* – **YES.**
- b) *Has Environmental Benefits.* – **YES.**
- c) *Considers health, safety, legal and cultural issues.* – **YES.**
- d) *Considers sustainable development (economic development that is conducted without depletion of natural resources).* – **YES.**
- e) *Applies ethical principles while selecting project (not to steal other's project idea, code and documents).* – **YES.**
- f) *Commits to professional ethics and responsibilities and norms of the engineering practice.* – **YES.**
- g) *Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools.* – **YES.**
- h) *Identify, formulate, review research literature, and analyze engineering problems reaching substantiated conclusions.* – **YES.**

### **System Requirements:**

- **Minimum Hardware Specifications Requirements:**
  - Ram – 4GB
  - Processor – Intel i3 10TH Gen.
  - Internal space – Minimum 4gb free required (for smooth experience).
  - Stable internet connection.
- **Technologies used:** *RPA - Excel Automation and Optical Character Reader(OCR).*  
 unconventionally. RPA benefits not just large and medium bust also small-scale organizations. It can speed up tasks in a wide range of industries such as insurance,HR, finance, banking, CRM, BPO/KPO services, etc. Across these industries, organizations usually outsource such tasks to third parties/vendors. Outsourcing helps them mitigate risks in quality, time and employee-shortage.

### **Key Personnel and their expertise :-**

<b>Student Name and Enrollment No.</b>	<b>Technical Expertise</b>
Kunal Pratap Singh Pawar(0827CI201099)	RPA and OCR
<b>Guide-</b> Prof. Simarjeet Singh Bhatia	RPA Expert



## Timetable:

	Description of Work	Expected no. of weeks to complete the module
<b>Module One</b>	Resource collection and analysis of data.	1/2
<b>Module Two</b>	Data from OCR to data table.	1
<b>Module Three</b>	Various Operations which we can perform on the collected data using data analysis.	1

## Project Benefits:

- *Saves the time of receptionists who fill the data manually for hours to just few minutes.*
- *Reduces the workload of receptionists.*
- *Reduces the risk of filling up of wrong data.*

## WORKING :-

Excel file with extracted details :-

A	B	C	D	E	F	G
Enrollment Number	Name	Father's Name	Stream	Mobile Number		
0827CI201079	HIMANSHU MISHRA	ADITYA MISHRA	BTECH-CSE	8965408245		
0827CI201T03	MAHENDRA SHAKTAWAT	RAGHUNATH SHAKTAWAT	BTECH-CSIT	7024510865		
0827C1201096	KULDEEP PANWAR	RAJENDRA PANWAR	BTECH-IT	1802645876		

Template of the form and data extraction process:-

Ui Template Manager "FormTemplate"

o Document Type

Application Form

1 Page 1 Matching Info

Mahatme Gandhi Institute Sr. No. Training Centre

e Enrollment Number

Custom Selection

a Name

Custom Selection

h Father's Name

Discard

Submit

1 / 1

?

Q

Mahatma Gandhi Institute

Industrial & Vocational Training Centre

Apurva Humsocial Welfare Sandalia, by Govt. of NCT Delhi

Approved by Labour of Ministry, Govt. of India

An ISO 9001:2008 Certified Organization

Sr No

Student's Enrollment No

0823C1201086

1. Name of the candidate

TARDEEP SINGH

2. Father's Name

RAJY CHOUHAN

3. Mother's Name

PARVIA CHOUHAN

4. Nationality

Indian ☐ Non Indian ☐

5. Gender

Male ☐ Female ☐

6. Date of Birth

DD  MM  YY

7. Program Name

8. Streams

BTECH-CSEIT

9. Program Session

TO

10. Complete Postal Address

11. E-mail Address

12. Name of the Parent / Guardian

13. Relationship of Parent / Guardian

Father ☐ Mother ☐ Guardian ☐

14. Phone Number with STD Code

 Place

15. Mobile Number

8350125896

 Date:

ACADEMIC INFORMATION

Year	Course	Board/university	Result
10th	<input type="text"/>	<input type="text"/>	<input type="text"/>
12th	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>	<input type="text"/>

Any Condition Fees Will Be Not Refundable  
All Decision Taken By Management Committee Will Be Final

# CERTIFICATE



## Diploma of Completion

Proudly presented to:

**Kunal Pratap Singh Pawar**

For successfully completing the course:

**Meet the UiPath Platform**

07 / 08 / 2022

Date of issue

A handwritten signature in black ink, reading "Thomas P. Clancy".

**Thomas P. Clancy**

Chief Learning Officer



# GITHUB LINK

DataExtractorBot- [Kunalpratap04/DataExtractorBot \(github.com\)](https://github.com/Kunalpratap04/DataExtractorBot)

# **CONCLUSION**

With the influx of venture capital funds and the need for process owners to optimize internal processes and to cut costs, RPA offers a low-hanging fruit solution. A lot of companies have done pilot RPA projects and some of them have scaled beyond that. This means that as a project manager you are very likely to come into contact with RPA bots directly or indirectly, especially as the field scales.

As we have seen RPA provides many opportunities and new backlog options for your projects. At the same time, it poses many challenges: from data corruption to the creation of legacy systems. As a project manager, you will have to be mindful of how to develop products or software that take RPA into consideration. Doing even a little bit of extra planning will save you a lot of headache down the road and deliver the results your stakeholders are expecting.

## **REFERENCES**

- <https://academy.uipath.com/>
- <https://cloud.uipath.com/>
- <https://www.uipath.com/>
- <https://docs.github.com/en>