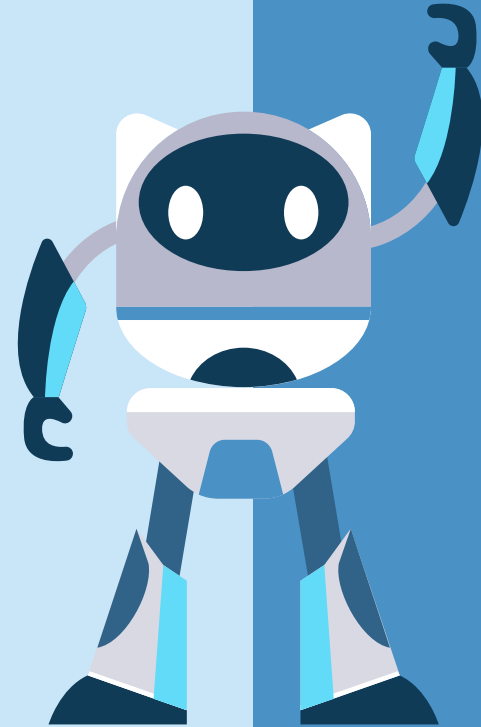
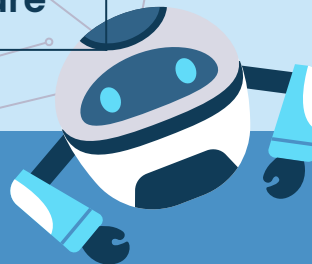


# ■ End-to-End Automated Employee Onboarding System Using UiPath



# Team

Sr.No	Roll No	PRN No	Name
1	324028	22210454	Om Karadkar
2	324032	22210788	Ameya Katdare
3	324042	22211407	Mohit Malve
4	324075	22210676	Shubham Waghmare





# Table of contents

**01**

## **Project Overview & Objectives**

Introduction to the problem, goals, and scope of the automated onboarding system using UiPath.

**02**

## **Tools & Workflow Design**

Tech stack used and the complete automation flow—from resume intake to offer letter distribution.

**03**

## **Process Implementation Stages**

Detailed steps including resume screening, assessment filtering, interview updates, and offer letter generation.

**04**

## **Results, Challenges & Future Scope**

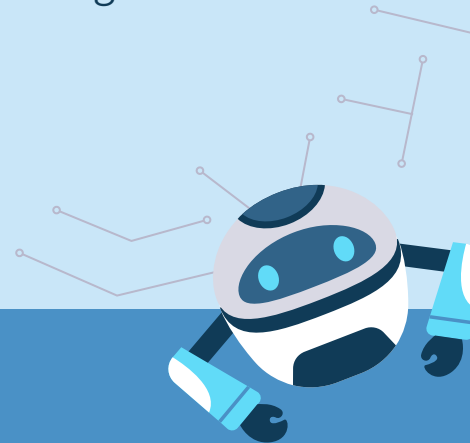
Project outcomes, obstacles encountered, and potential improvements to enhance automation further.



# Introduction

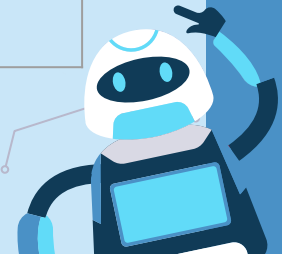
HR onboarding is often repetitive, manual, and time-consuming, leading to inefficiencies in the hiring process. These tasks are prone to human error and delays, affecting overall productivity. Automating the workflow helps streamline operations, saving time and improving accuracy.

**Aim:** Build a fully automated workflow using RPA (UiPath) to streamline the hiring process from resume screening to offer letter distribution.

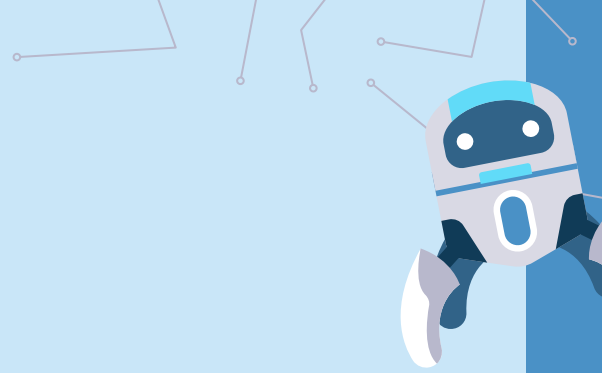
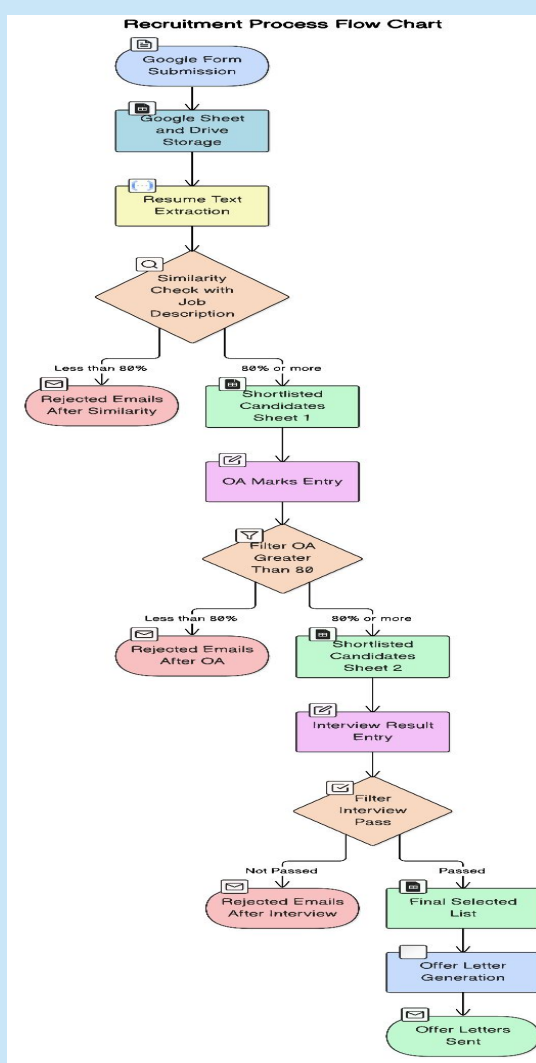


# Tools & Technologies Used

Tool	Description
UiPath	Core RPA automation
Google Drive	Resume storage & retrieval
Google Forms	Resume submission
Google Sheets	Dynamic data handling
Gmail API	Automated email responses
Google Docs	Dynamic offer letter template



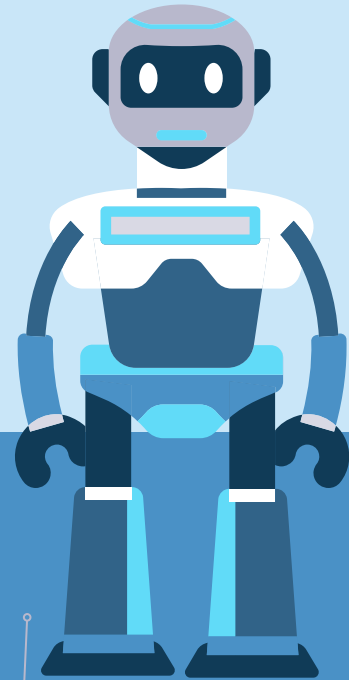
# Diagram



**01**

# Step 1 – Google Form Creation

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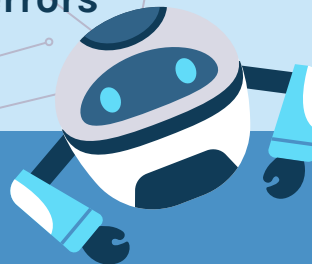
# Google Form Creation

## Google Form Creation via UiPath

- Open Chrome → Navigate to Google Forms (Use Browser + Type URL)
- Click → Add Form Elements (Click IMG, Multiple Choice, Short Answer)
- Type Into → Input fields like Full Name, College Email, Resume Link
- Click → Publish and Dismiss confirmation popup

 Effort: Field automation with Clicks and Typing actions

 Impact: Speeds up form creation, ensures consistency, reduces manual errors

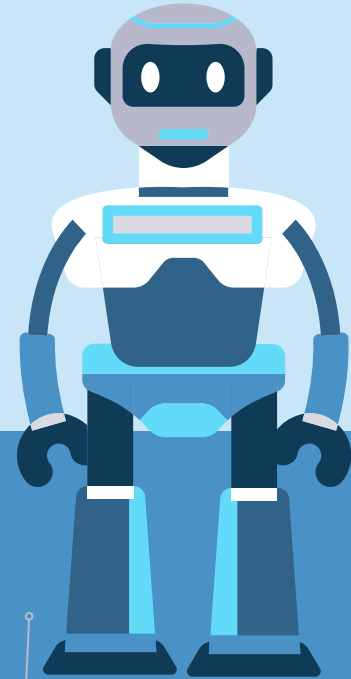




**02**

# Step 2 – Resume Screening Automation

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# Resume Screening Automation

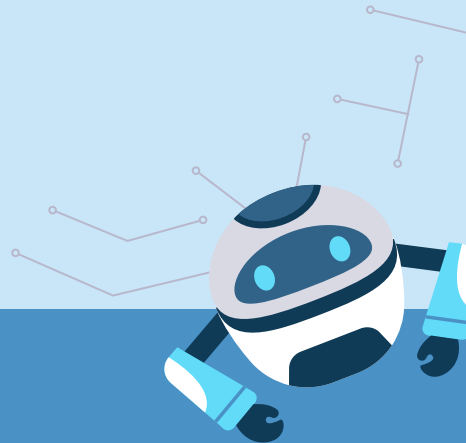
- Data submitted via Google Form, resumes auto-uploaded to Google Drive
- UiPath reads resumes → extracts text using OCR
- Compares with Job Description using text similarity
- Candidates with similarity > 80% are shortlisted
- Gmail sent to selected and rejected applicants



Effort: Text extraction, JD matching logic, threshold filtering



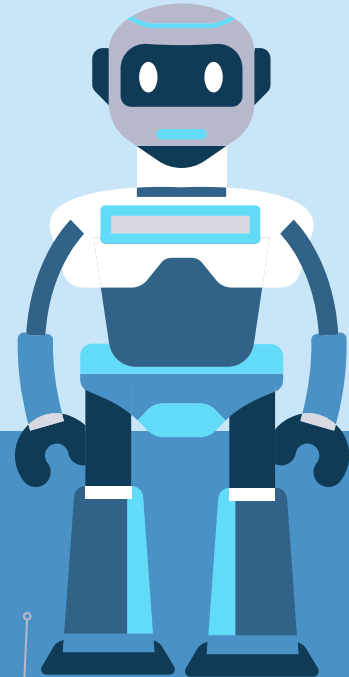
Impact: Automated screening = reduced HR workload



**03**

# Step 3 – Online Assessment Processing

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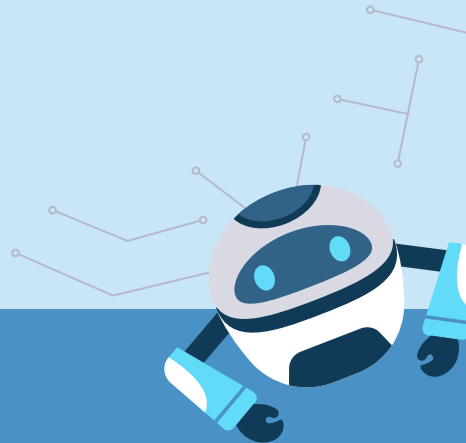


# Online Assessment Processing

- New Google Sheet with shortlisted resumes created
- OA scores manually entered (from 3rd-party test provider)
- UiPath filters scores > 80%
- New sheet created for next round
- Gmail sent to both passed/failed candidates

 Effort: Data filtering logic, dynamic Google Sheet creation

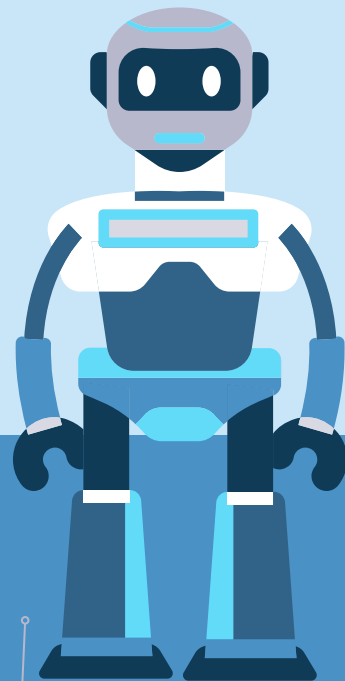
 Impact: Timely communication, accuracy in filtering



**04**

# Step 4 – Interview Round Automation

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# Interview Round Automation

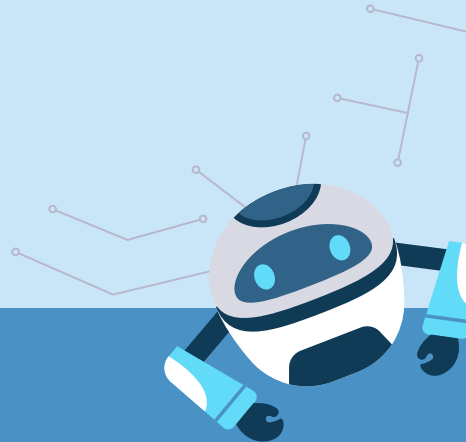
- HR adds a column: Interview Selection (1/0) manually
- UiPath filters final list of selected candidates
- Again, sheet created with selected applicants
- Gmails sent using conditional triggers



**Effort: Manual + automated collaboration**



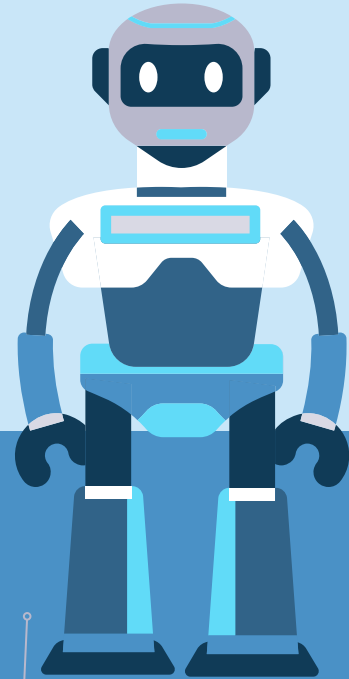
**Impact: Final candidate pipeline ready without human errors**



**05**

# Step 5 – Offer Letter Distribution


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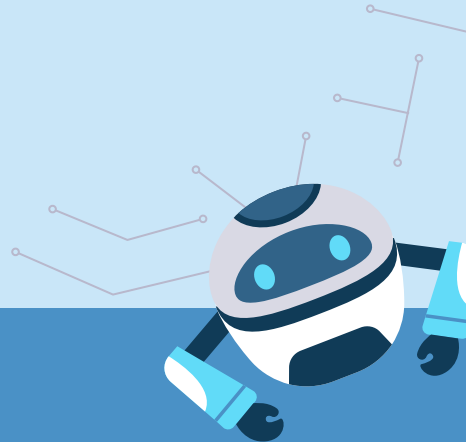


# Offer Letter Distribution

- Final Google Sheet with selected candidates + emails
- UiPath generates offer letter PDFs using Google Docs Templates
- Candidate name dynamically inserted
- PDFs emailed to selected candidates via Gmail


 Effort: Google Docs template automation

 Impact: Personalized offer letter delivery, no manual work






# Key Features

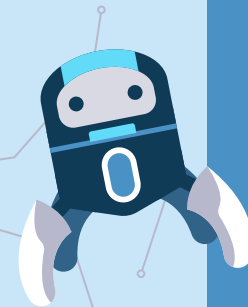
 Fully End-to-End Automated  
(except 3rd party OA &  
interview marking)

 Saves time and resources


 Automated, personalized  
Gmail communication


 NLP-based resume parsing


 No technical knowledge  
needed for HR to use the flow





# Challenges Faced


 Extracting text accurately from multiple resume formats  
Different file types (PDF, DOCX) and layouts made consistent extraction difficult.

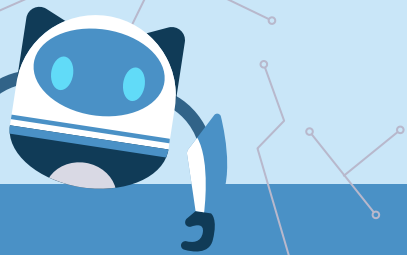
 Gmail quota limits  
UiPath had to implement batch email sending logic to avoid daily Gmail sending limits.

 Handling manual data with automation (e.g., OA scores, interview results)  
Seamlessly integrating manual steps with automation without causing flow errors.

 Ensuring no data overwrites in Google Sheets  
Needed careful sheet duplication and naming conventions to preserve every stage.

 Dynamic file and folder handling on Google Drive  
Automating resume access and ensuring file names matched form entries was tricky.

 Similarity score logic for JD matching  
Designing an accurate and fair threshold-based comparison system required fine-tuning and testing.






# Results


- Automated screening of 50+ resumes in under 2 minutes
- 100% accuracy in Gmail responses and shortlisting
- Personalized offer letters sent without manual edits
- Saved approx. 80% HR effort in onboarding process



# Future Enhancements

 Add security/authentication for HR users

 Integrate with ATS (Applicant Tracking System)

 Auto-grade online assessment using MCQ forms

 Add chatbot for live candidate queries



# Conclusion

“The system built demonstrates how Robotic Process Automation can revolutionize traditional onboarding methods. By using UiPath and Google Workspace tools, a seamless, end-to-end onboarding pipeline was developed and tested.”

Real-world practical use

Highly scalable

Time-saving and reliable



# Thanks!

Do you have any questions?

