Robotic Process Automation (RPA)

Speaker: Mukesh Kala, UiPath MVP

Agenda



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- What is RPA
- What Robots can Do
- Benefits of RPA
- RPA Across Industries
- UiPath Business Automation Platform
- RPA with AI







What is RPA



- **Robotic Process Automation (RPA)** refers to software technology that allows for the automation of routine, repetitive tasks that are usually performed by humans.
- RPA tools use artificial intelligence and machine learning algorithms to mimic human actions such as clicking buttons, entering data, and navigating applications.
- The goal of RPA is to increase efficiency, accuracy, and speed of business processes by reducing the workload on human employees and minimizing the risk of errors. This technology is widely used in industries such as finance, healthcare, customer service, and human resources.
- RPA, or Robotic Process Automation, refers to software tools that automate routine and repetitive tasks by imitating human actions, such as clicking buttons and typing text.



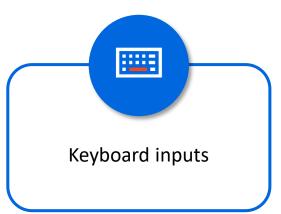




What is RPA



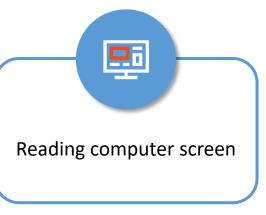
RPA is the technology that enables a software program to mimic human actions while interacting with computer applications to accomplish required tasks. Some human interactions that can be automated are:













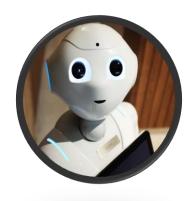






What RPA is Not?





Walking and Talking Robots or Humanoid



Warehouse Robots



Human Replacements





What Robots can Do?





Log in to any application



Connect to system APIs



Move files and folders



Extract content from documents, PDFs, emails and forms



Read and write to databases



Open emails and attachments



Scrape data from the web



Make calculations







Benefits of RPA







Increased Execution Speed



Enhanced Accuracy



Improved Regulatory Compliance



Reduced Cost of Process Execution



Easier Scaling







RPA across Industries



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Supply Chain

- Inventory management
- Invoice & contract management





IT

- Server & app monitoring
- Routine maintenance & monitoring





HR

- Payroll
- Onboarding & offboarding



Client Services

- Address change
- Scheduling appointments

Accounting

- Accounts/Reports Reconciliation
- **Account Creation &** Update

Operations

- **Order Creation &** Update
- Work Order Request







RPA in Utilities



- Billing and Invoicing: Automating manual tasks related to billing and invoicing, such as data entry, reconciliation, and report generation.
- **Meter Reading:** Automating the process of collecting, processing and updating meter reading data.
- **Customer Service:** Automating routine customer service tasks, such as account creation and information updates.
- **Data Management:** Automating tasks related to data management, such as data validation, entry and reconciliation.
- **Supply Chain Management:** Automating tasks related to procurement, inventory management and supplier management.
- **Workforce Management:** Automating tasks related to employee management, such as time and attendance tracking and scheduling.
- **Regulatory Compliance:** Automating compliance-related tasks, such as reporting and audits.







The UiPath Business Automation Platform





Discover

Continuously uncover opportunities for process and task improvements helping you identify the highest ROI areas

Your **Processes**

PROCESS MINING

TASK MINING

COMMUNICATIONS MINING

IDEA CAPTURE & MANAGEMENT

Automate

Get more done with a digital workforce that seamlessly collaborates with your people and automates work via UI and API, powered with native integrated AI

LOW-CODE DEVELOPMENT

UI & API AUTOMATION

PROCESS ORCHESTRATION

INTELLIGENT DOCUMENT PROCESSING

INTEGRATED NLP & AI/ML

Operate

An enterprise-grade foundation to run and optimize a mission critical automation program at high scale



Your People

Your

Applications

ANALYTICS

CONTINUOUS TESTING

UNIFIED MANAGEMENT & GOVERNANCE

FLEXIBLE DEPLOYMENT









Example



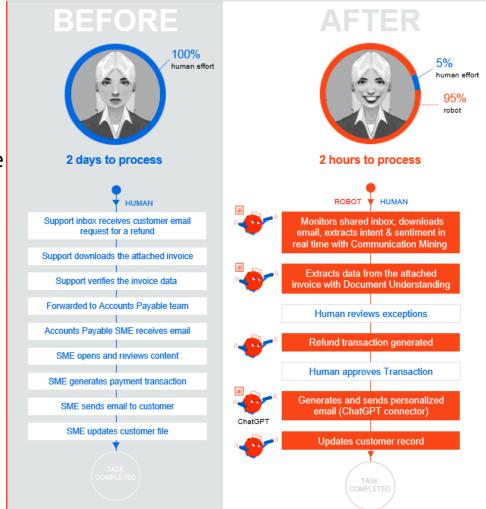
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Customer type: eCommerce

Technology Utilized: Communications Mining, Document Understanding, ChatGPT/Generative Al and UiPath Robots

Used AI Models: Communications Mining LLM, OOB Invoice Model, ChatGPT for customized email generation









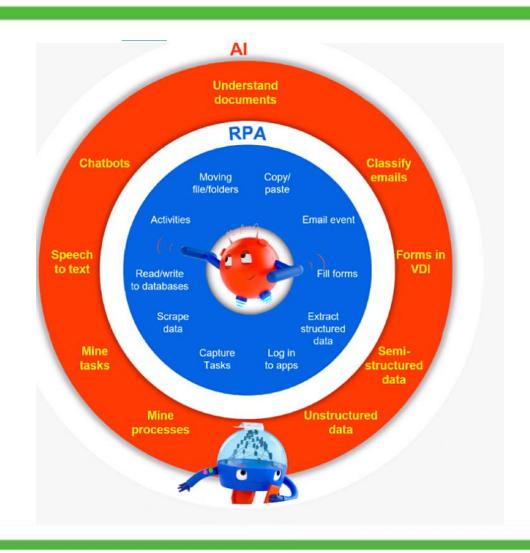


RPA and Al















Why AI?





Document Intensive Business

> There is too much variability for rules based

High

Variability

Information contained in articles, contracts, and emails

Unstructured

Data

Processes require data extracted from documents



















Mortgage Origination

Loan Defaults Inventory **Forecasts** Customer Churn

Purchase Decisions

Language Translation

Invoice Extraction

Email Routing Speech to Text

Document Varieties

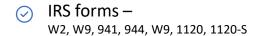
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- Articles of formation
- Attorney general letters
- Automotive & dealer invoices
- Bank statements
- Bill of lading
- **Business checks**
- Capital calls
 - Certificate of good standing
- Credit default swaps







- IRS schedules C, E, F
- **IRS** transcripts
- Legal contracts
- Letters of explanation
- Mailing envelopes
- OTC medical receipts



- Passports & passport cards **US & international**
- Pay stubs
- Purchase orders
- Receipts
- Shipping invoices
- States issued IDs
- Utility bills -**US & International**













Document Understanding (Generic)	Build a model from	Build a model from scratch for any document type.				
Invoice (Languages)	Generic	Transportation	Delivery Notes	Insurance	ACORD25	
	India		Packing Lists		ACORD125	
	Australia		Vehicle Title		ACORD126	
	China	Banking	Bank Statements		ACORD131	
	Japan		Financial Statements		ACORD140	
Billing	Purchase Orders		Checks	Complementary Models	Document Classifier	
	Receipts		FM1003		Document Splitter	
	Utility Bills	Тах	1040		Named Entity Recognition	
	Remittance Advice		19		Multilingual Text Classifier	
Personal ID	Passports		4506-T		Light Text Classifier	
	ID Cards		990		Image Classifier	







Use Cases

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Automation fuels ambition for **SOCAR Turkey**

Since 2019, the business has automated 58 processes with its five digital colleagues, saving 30,000 staff hours, reducing errors, and minimizing bottlenecks and waiting times.



CASE STUDY

Vertiv improves efficiency and accuracy with UiPath automation platform

Vertiv, a global provider of critical digital infrastructure and continuity solutions, enhanced its operational efficiency and reduced costs with automation.



CASE STUDY

How UiPath helped NRGi turn billing into a competitive differentiator

Learn how automation was crucial to NRGi's success by reducing unnecessary activities and eliminating as many tasks as possible.



CASE STUDY

Getting the RPA foundations right leads to quick results—and customer benefits

Learn how management at Water Plus adopted RPA to help agents achieve more in their roles, and how people adapted to software robots as a result.



CASE STUDY

Ignitis Group Reduces Opex and Improves Customer Service with RPA

See how Ignitis Group drives cost and operational efficiencies with process automation by focusing on delivering value for money and innovation to customers.



CASE STUDY

Transforming efficiency experiments into enterprise fit automation at Bristol Water

Read Bristol Water use of robotic process automation (RPA), from experimental beginnings to enterprise-wide implementation.

https://www.uipath.com/resources/automation-case-studies?filterResources=&Industries=Energy-and-Utilities











Ui Path Al case studies

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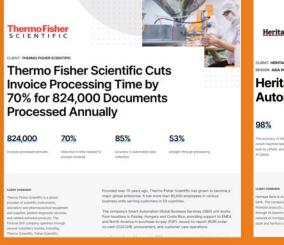








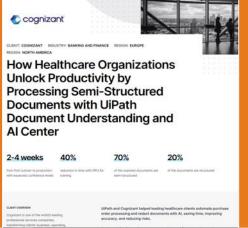


























Thank You

For discussions/suggestions/queries email: isuw@isuw.in www.isuw.in Links/References (If any)





