UiPath™ Community

# Automation Pathshala
# The Month of AI

Where Passion Meets Learning

UiPath Community

# NISARG KADAM

UiPath MVP
Automation Architect WonderBotz

- UiPath MVP 2021 & 2022
- UiPath Global Hackathon Winner 2020 & 2021
- Automation Architect WonderBotz
- Weekend YouTuber
- Bike Rider / Quarter Litre Racer
- I love writing blogs
- I love creating travel vlogs
- I was a professional dance choreographer

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# PRADEEP CHINNALA

UiPath Mentor
Senior Consultant WonderBotz

**Seasoned UiPath Mentor**

**Senior Consultant WonderBotz**

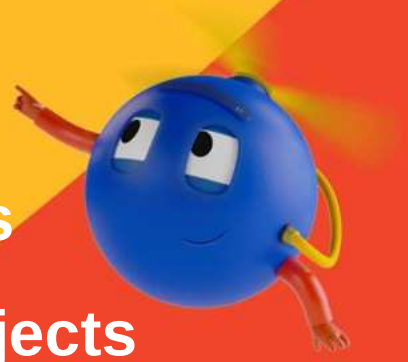
**Certified RPA UiPath Developer**

**Part-time Trainer for UiPath learners**

**Ability to handle the end-to-end projects**

**Interests :**

**Traveling, Swimming and badminton**



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WonderBotz

RPATools.com
Learn, Hire, Share!

# Automation Pathshala – 1.0

## Automation Pathshala

8 videos • 3,302 views • Last updated on 9 Nov 2021

Public

No description

nisarg kadam

Learn UiPath development foundation from scratch with Automation Pathshala | Nisarg Kadam | Day 1

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Learn UiPath development foundation from scratch with Automation Pathshala | Nisarg Kadam | Day 2

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Learn UiPath development foundation from scratch with Automation Pathshala | Nisarg Kadam | Day 3

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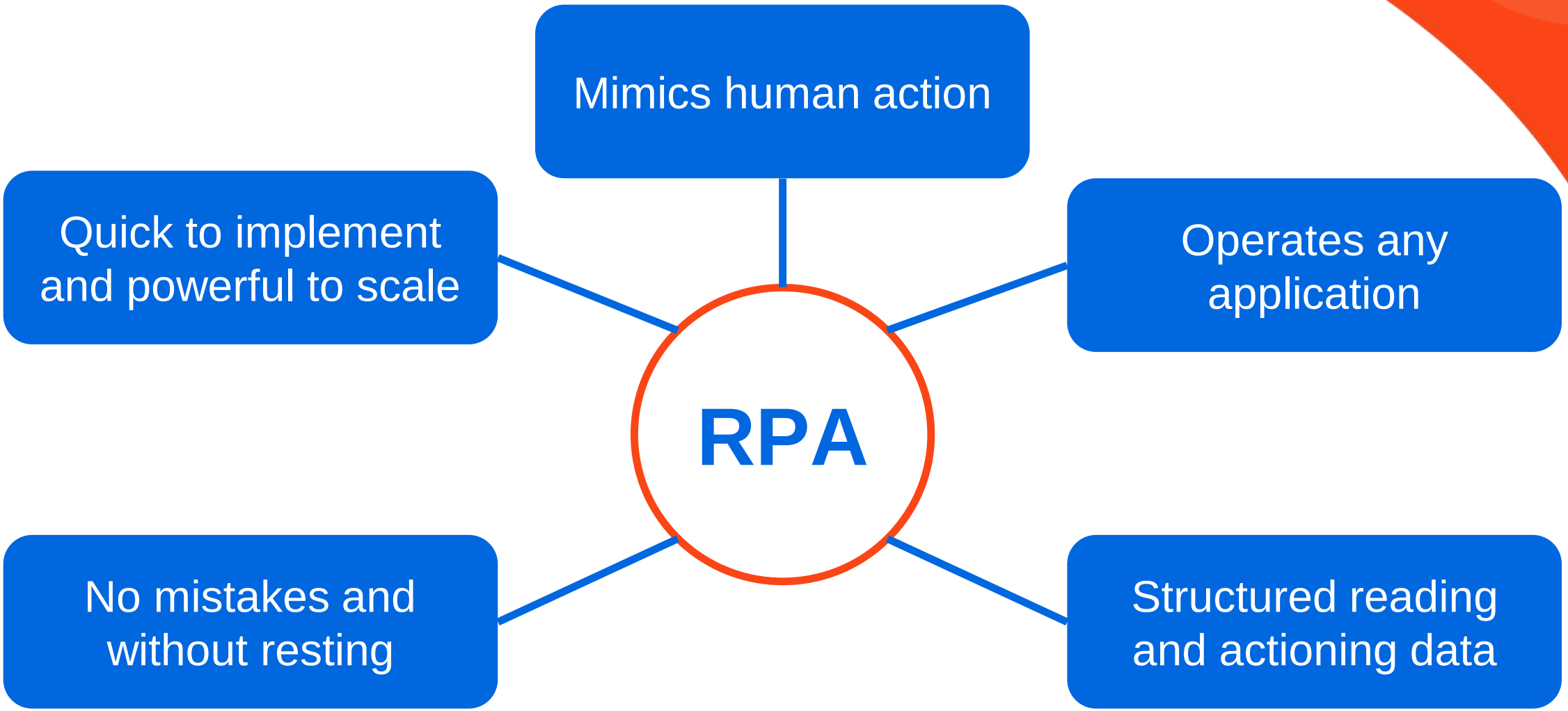
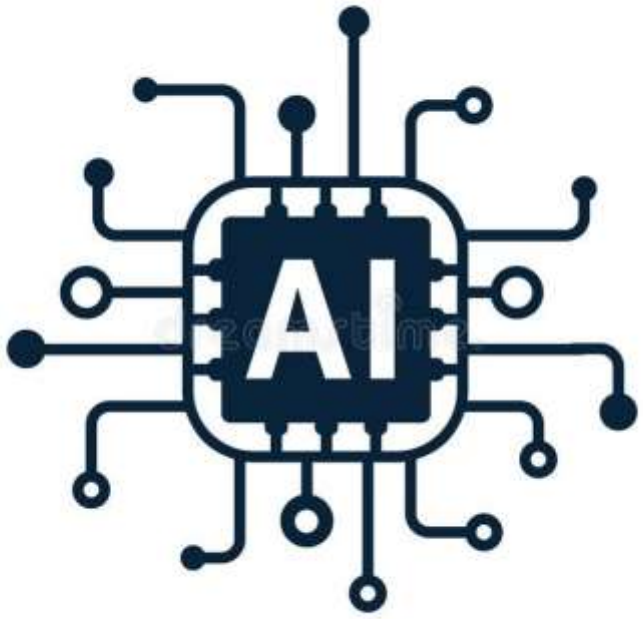
Learn UiPath development foundation from scratch with Automation Pathshala | Nisarg Kadam | Day 6

# What is RPA?


Mimics human action
Quick to implement and powerful to scale
Operates any application
RPA
No mistakes and without resting
Structured reading and actioning data

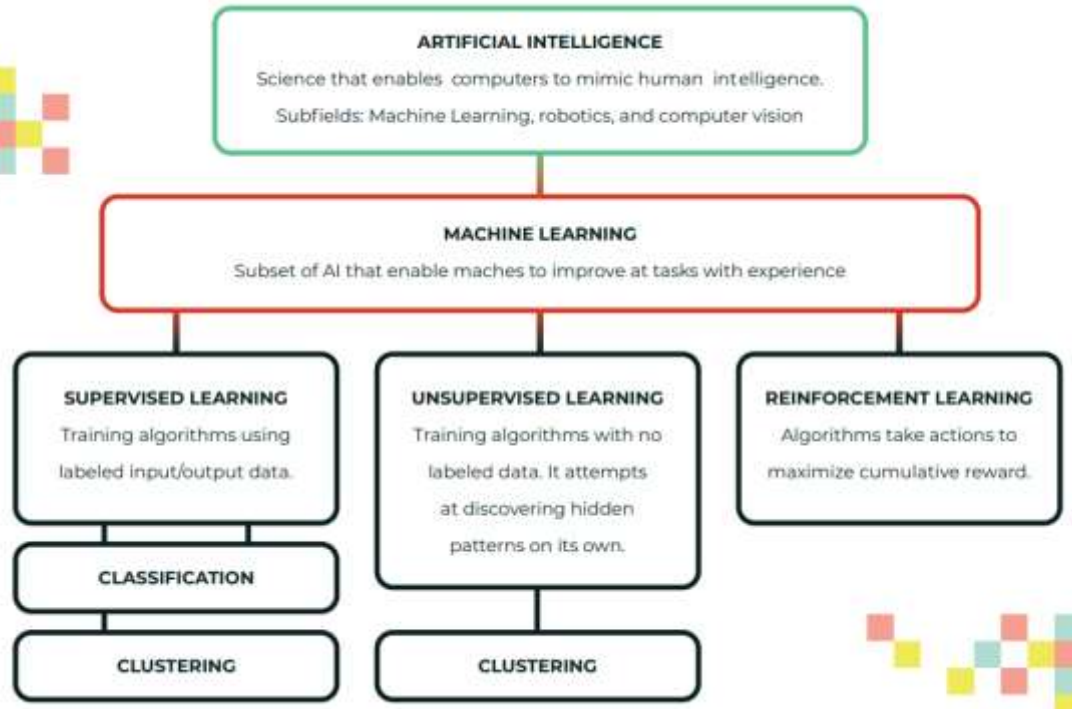
# What is AI – Artificial Intelligence?




Science that empowers computers to mimic human intelligence such as decision making, text processing, and visual perception.

Ai is a broader field (i.e.: the big umbrella) that contains several subfield such as machine learning, robotics, and computer vision.

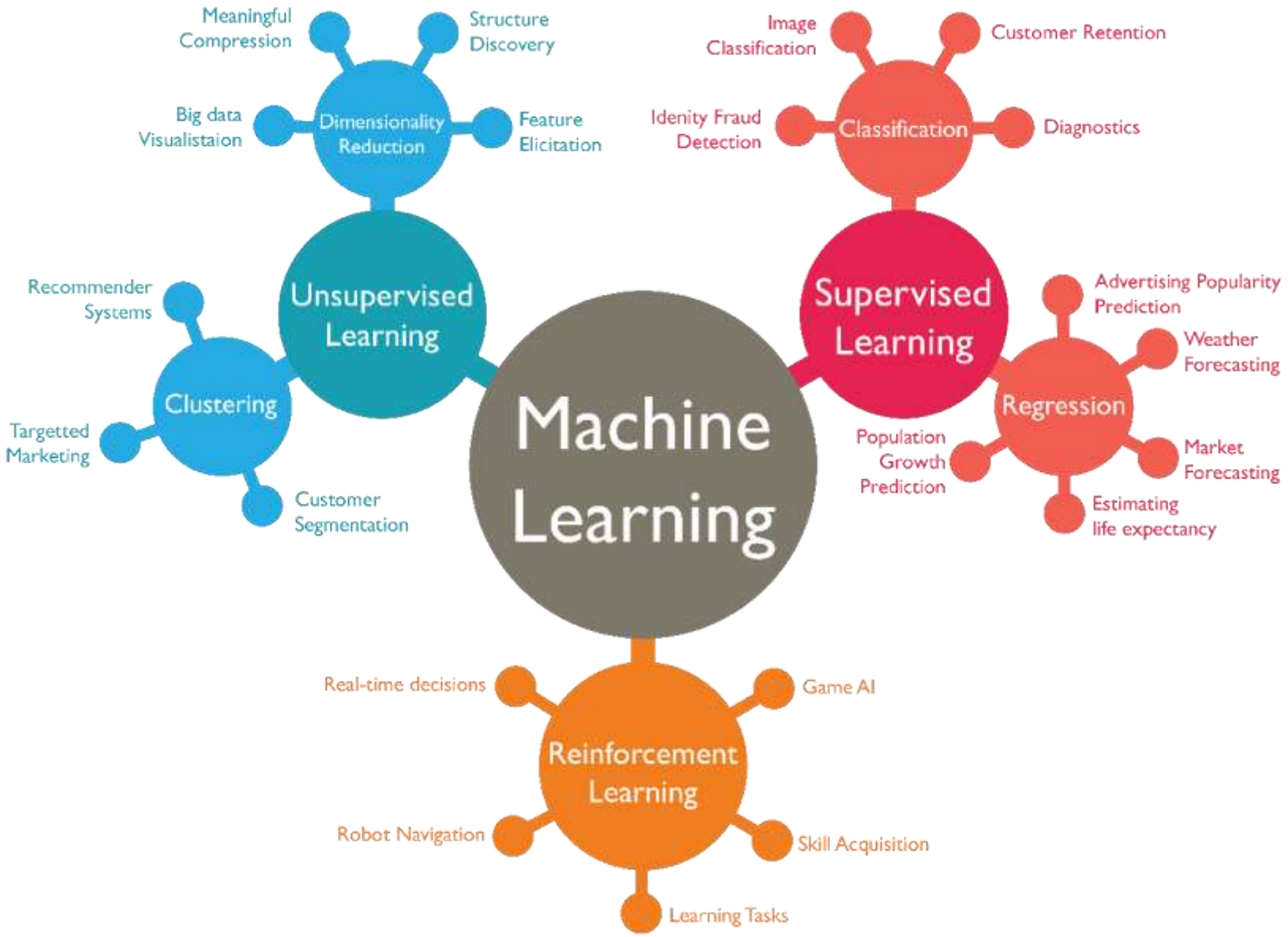
# What is Machine Learning?




· Machine Learning is a subfield of Artificial Intelligence that enables machines to improve at a given task with experience. It is important to note that all machine learning techniques are classified as Artificial Intelligence ones.

However, not all Artificial Intelligence could count as Machine Learning since some basic Rule-based engines could be classified as AI but they do not learn from experience therefore they do not belong to the machine learning category

# Hierarchy of Machine Learning?



# About UiPath

UiPath Community

**UiPath founded in Romania**

Series A Investment

Headquarters in New York City

UiPath Enterprise RPA Platform

**Our Vision: A Robot for Every Person**

Series B & C investment

Leader in Gartner Magic Quadrant and Forrester Wave for RPA

Series D investment

#1 in all major independent user review sites for RPA

CNBC DISRUPTOR 50 2020

FT The Americas' Fastest Growing Companies 2020

Cloud100

Series E investment

Series F investment

Public company

#1 in Market Share (Gartner) & Leader in Gartner MQ

**Our Mission: To deliver the Fully Automated Enterprise™**

SCREEN SCRAPING

UI AUTOMATION

STUDIO ORCHESTRATOR ROBOTS

OCR

AI COMPUTER VISION

AI CENTER

PROCESS MINING

HUMAN IN THE LOOP

TEST SUITE

STUDIOX / ASSISTANT

AUTOMATION CLOUD

APPS

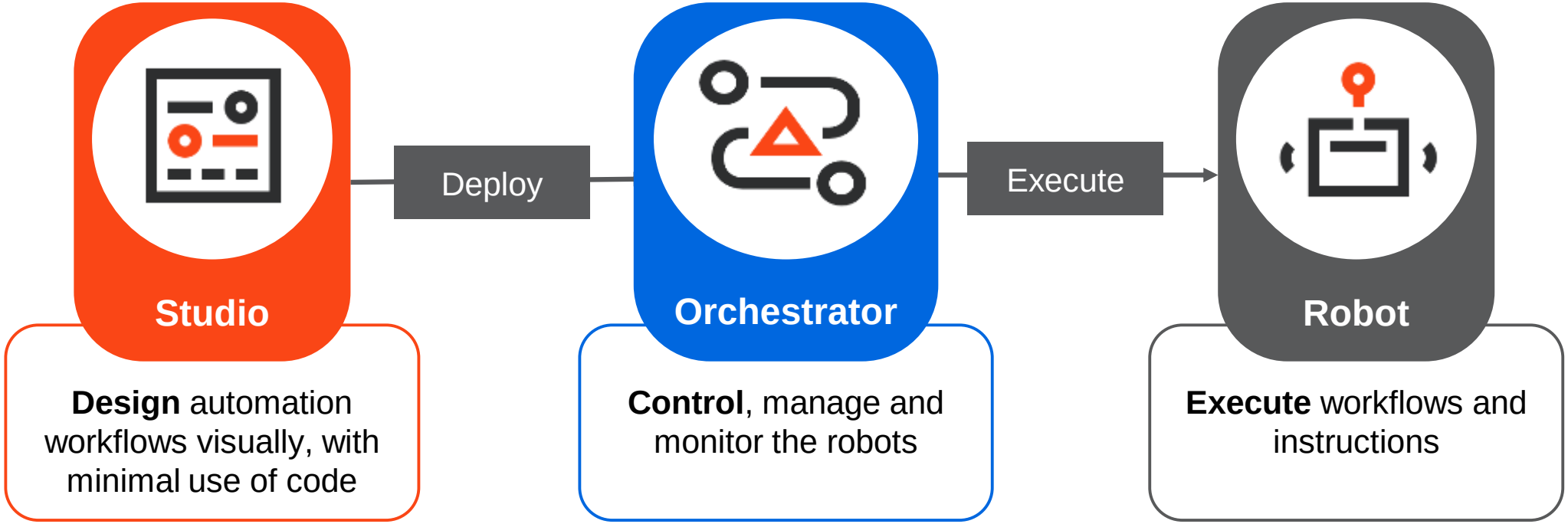
TASK MINING

THE FULLY AUTOMATED ENTERPRISE

2005 2013 2017 2018 2019 2020 2021

# UiPath Platform

The UiPath Suite has three core components, which are are:



# UiPath Products

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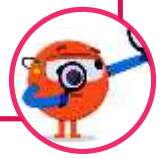
UiPath AI Center

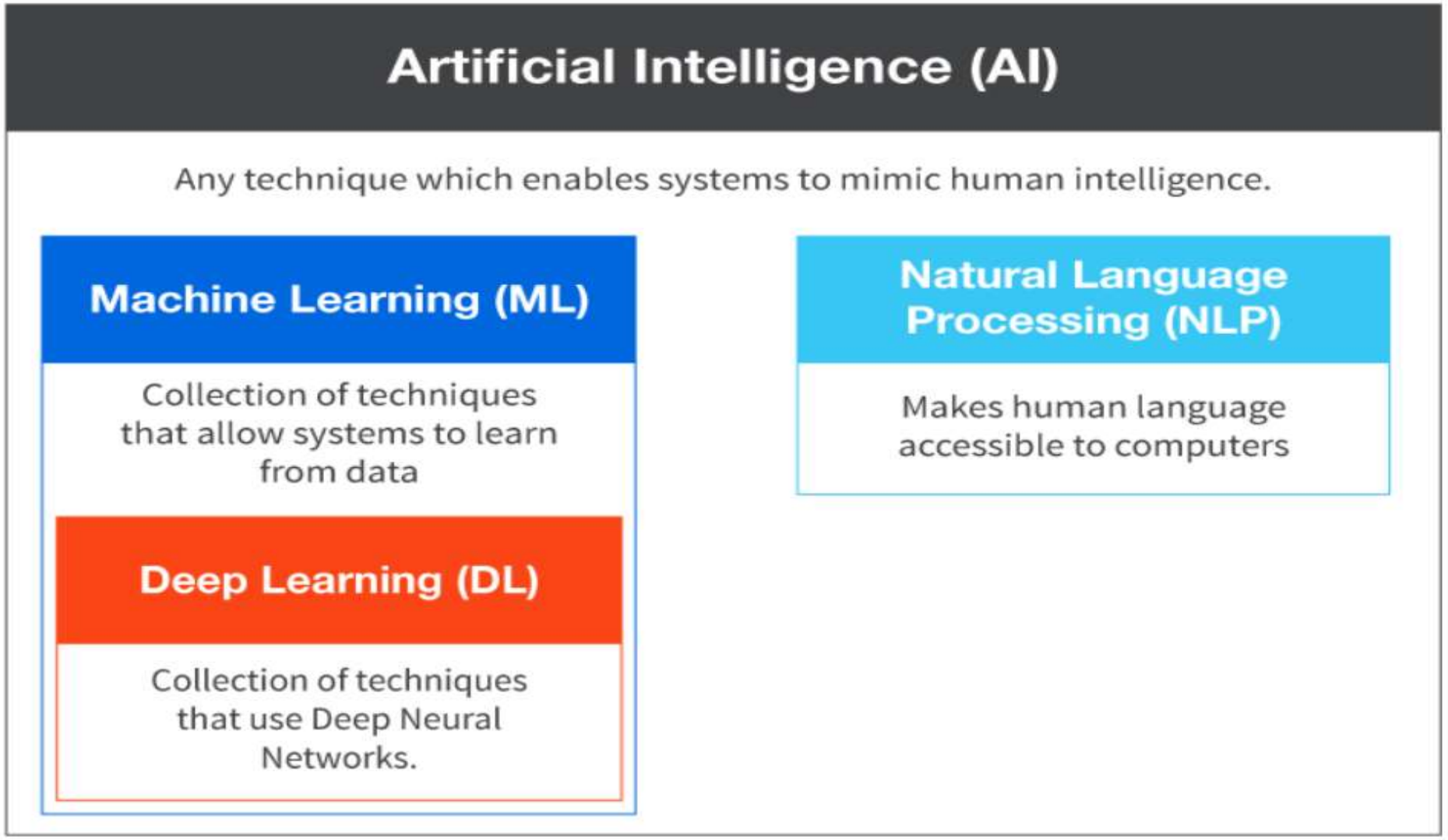
| Discover | Build | Manage | Run | Engage |
| --- | --- | --- | --- | --- |
| • Automation Hub<br>• Task Capture<br>• Process Mining<br>• Task Mining | • Studio & StudioX<br>• Document Understanding<br>• Automation Ops<br>• Integration Services<br>• Marketplace | • Orchestrator<br>• AI Center<br>• Test Suite<br>• Data Services<br>• Insights | • Robot<br>• Attended Robots<br>• Automation Cloud | • Apps<br>• Assistant<br>• Action Center |



# AI Center

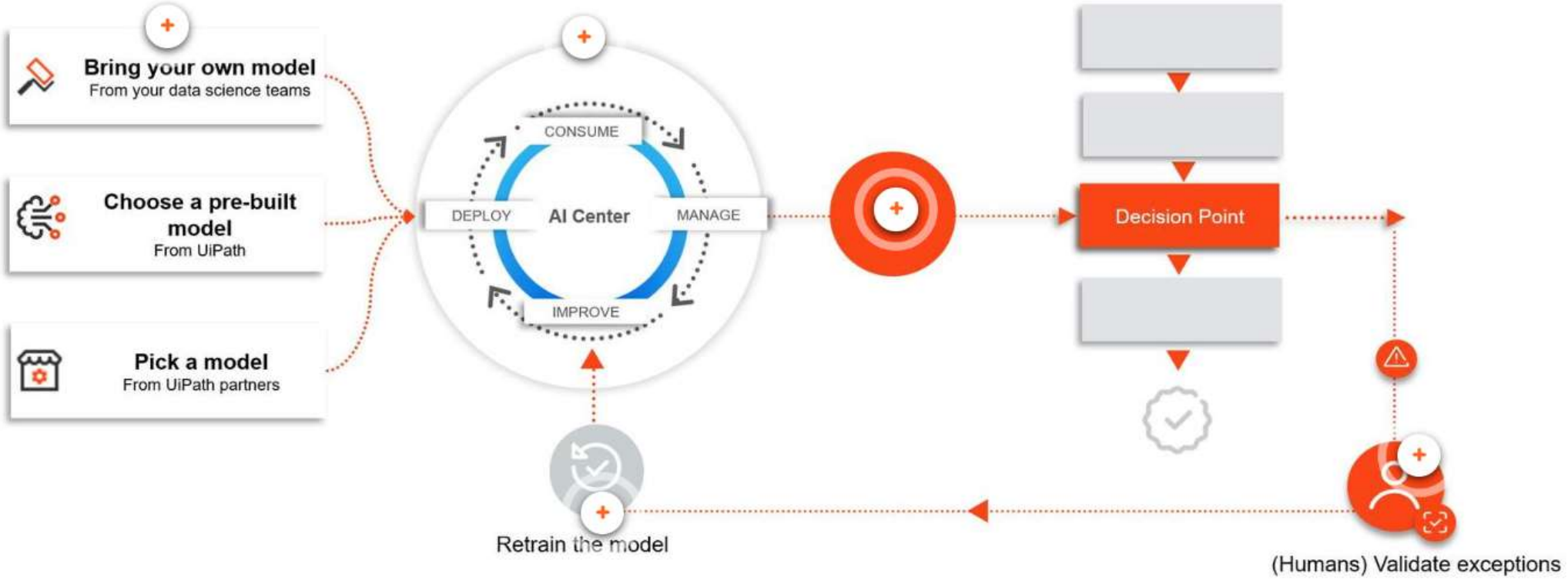
AI Center is a service that allows you to deploy, manage, and continuously improve Machine Learning models and consume them within RPA workflows in Studio.

# What is Artificial intelligence (AI) ?

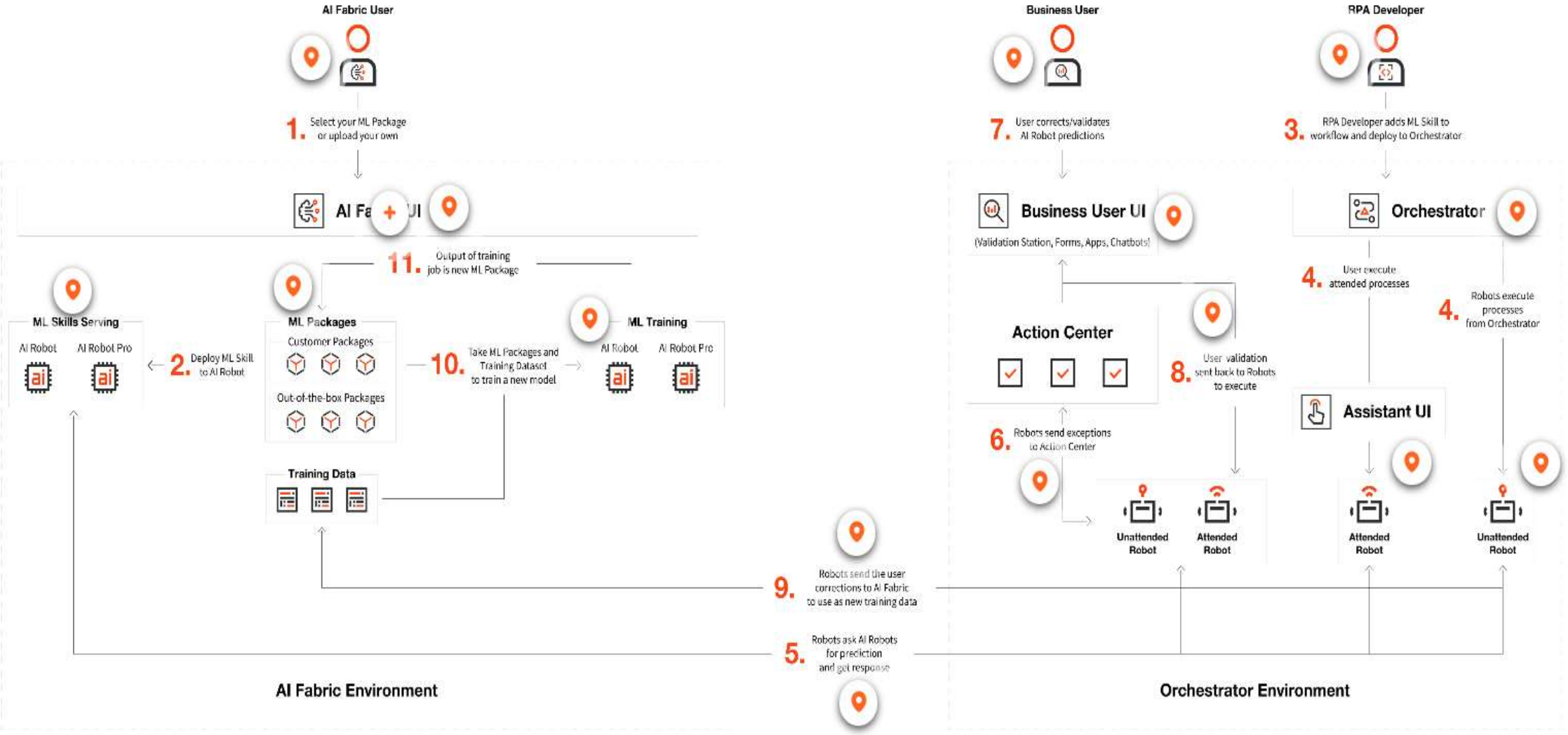


# AI Center and Working Mechanism

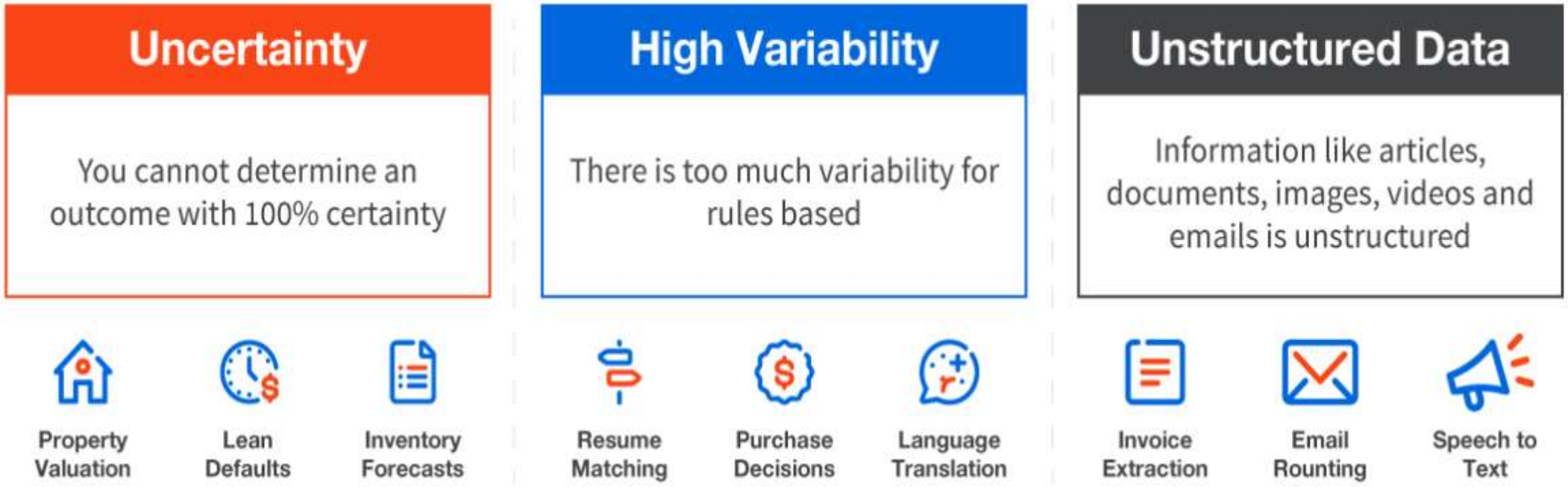
AI Center is UiPath's machine learning platform, which enables customers to deploy, consume, manage and improve ML Skills developed in-house, by UiPath, or by UiPath partners



# ➢ How AI Center interacts with the UiPath ecosystem :



# ➢ Identifying the Use cases :



# ➢ Groups of user handling the AI Center.

## RPA COE

**Challenges:**
- Is difficult to add easily AI capabilities in their automations;
- No access into Data Science team's models;
- Which model is the right fit;

**With AI Center they can:**
- Automate complex and cognitive processes;
- Get visibility into Data Science team's work;
- Select an ML model suited to your business needs.

## Data Scientist

**Challenges:**
- Lack of a standard delivery mechanism for their models;
- No visibility into model performance;
- Not sure when a model needs to be retrained and difficulty to gather the additional data.

**With AI Center they can:**
- Put ML models in the hands of more people, faster
- Get visibility into model use and performance;
- Retrain models with new data coming from business validation.

## Business User

**Challenges:**
- Misalignment between AI projects with business priorities;
- Don't know how to apply AI to business problems;
- No easy way to see business impact;

**With AI Center they can:**
- Improve model's performance with domain expertise;
- Handle exceptions, validate model predictions;
- Make decisions based on predictions.

# ➢ Examples for the Use cases :

| General | Healthcare | Retail | Financial Services | Professional Services |
|---|---|---|---|---|
| Resume Matching | Real Time Pregnancy Risk Evaluation | Packaging Quality Evaluation | Fraud Detection | RFP Opportunities |
| Help Desk Answers | Patient Receivables Management | Inventory Management | Personal Loan Approval | Deal Guidance |
| Customer Churn Prediction | Prospensity of Claim Denial Prediction | Merchandising Planning | KYC - Entity Identification | Data Extraction from Charts |
| Customer Complaints - Email Classification | Fraudulent Medical Claim Prediction | Product Recommendation | AML Alert Classification | Auditing - Anomaly Detection |
| Quality - Visual Inspection | Readmission Prediction | Pricing Optimization | ID Information Extraction | Legal - Win/Loss Rate Prediction |

# AI Center offers more than 25 trainable and pre-trained ML models, enabling hundreds of use cases

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## UiPath Document Understanding

- Invoices – Generic, India, Australia, Japan
- Receipts
- Purchase Orders
- Utility Bills
- Generic Document Understanding
- Contracts – *preview*
- Passports & ID cards – *preview*

## Language Analysis

- Text Classification – English, French, Japanese, multi-language
- Language Detection
- Language Translation – English to French, English to German, English to Russian
- Named Entity Recognition – pretrained, custom (preview)
- Sentiment Analysis

## Language Comprehension

- Question Answering
- Semantic Similarity
- Text Summarization

## Image Analysis

- Image Moderation – Explicit, explicit-drawing and more
- Object Detection
- Image Classifier – *coming soon*

## Tabular Data

- Regression
- Classification

## Others

- Time Series
- Custom-built Models

# ➢ Licensing and Pricing :

UiPath™ AI Fabric

## Cloud

**AI Robot**
Runs 2 ML skills or 1 training job at a time

**AI Robot Pro**
Runs 2 ML skills or 1 training job at a time with GPU available

## On-premise

**AI Robot**
Runs 2 ML skills or 1 training job at a time

On-prem AI robots can utilize available GPUs; there's no need for a *Pro* version

# Operationalization of AI Center?

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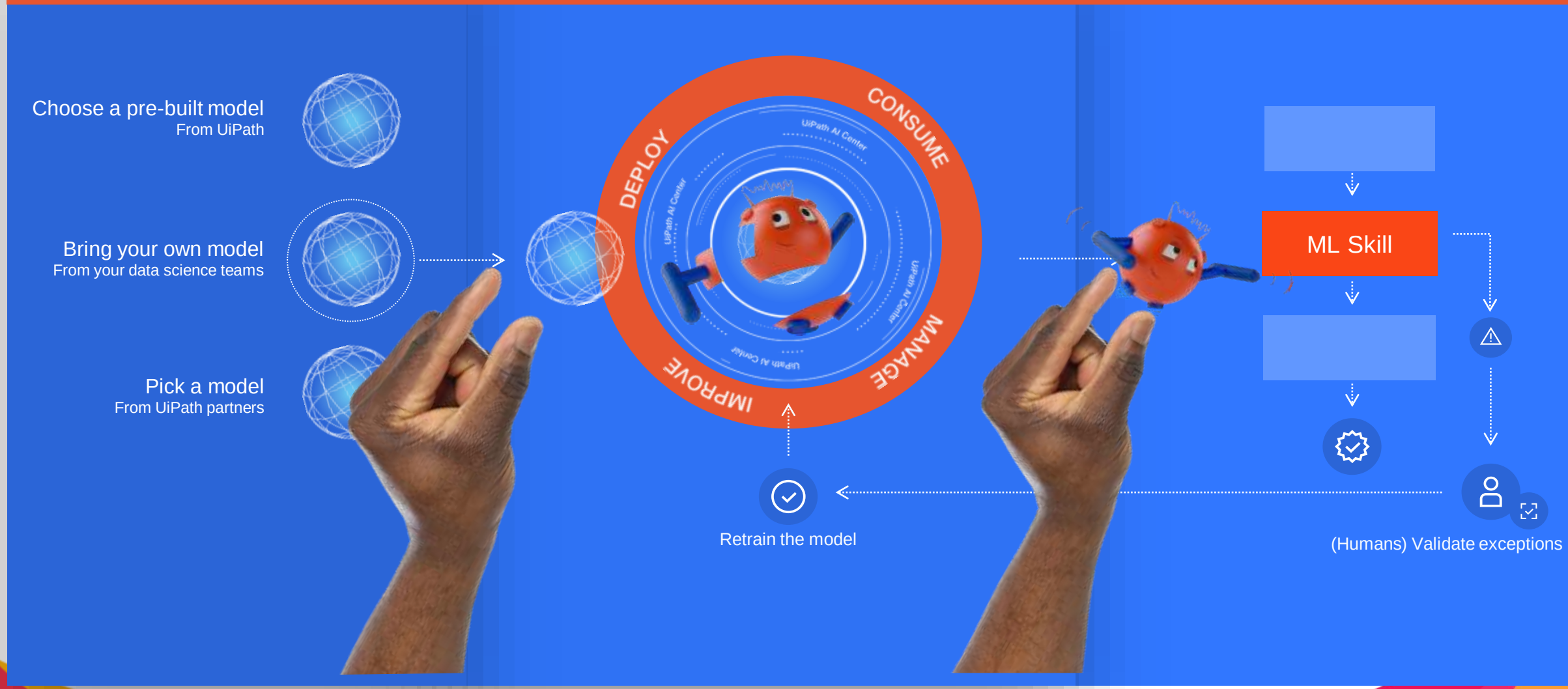
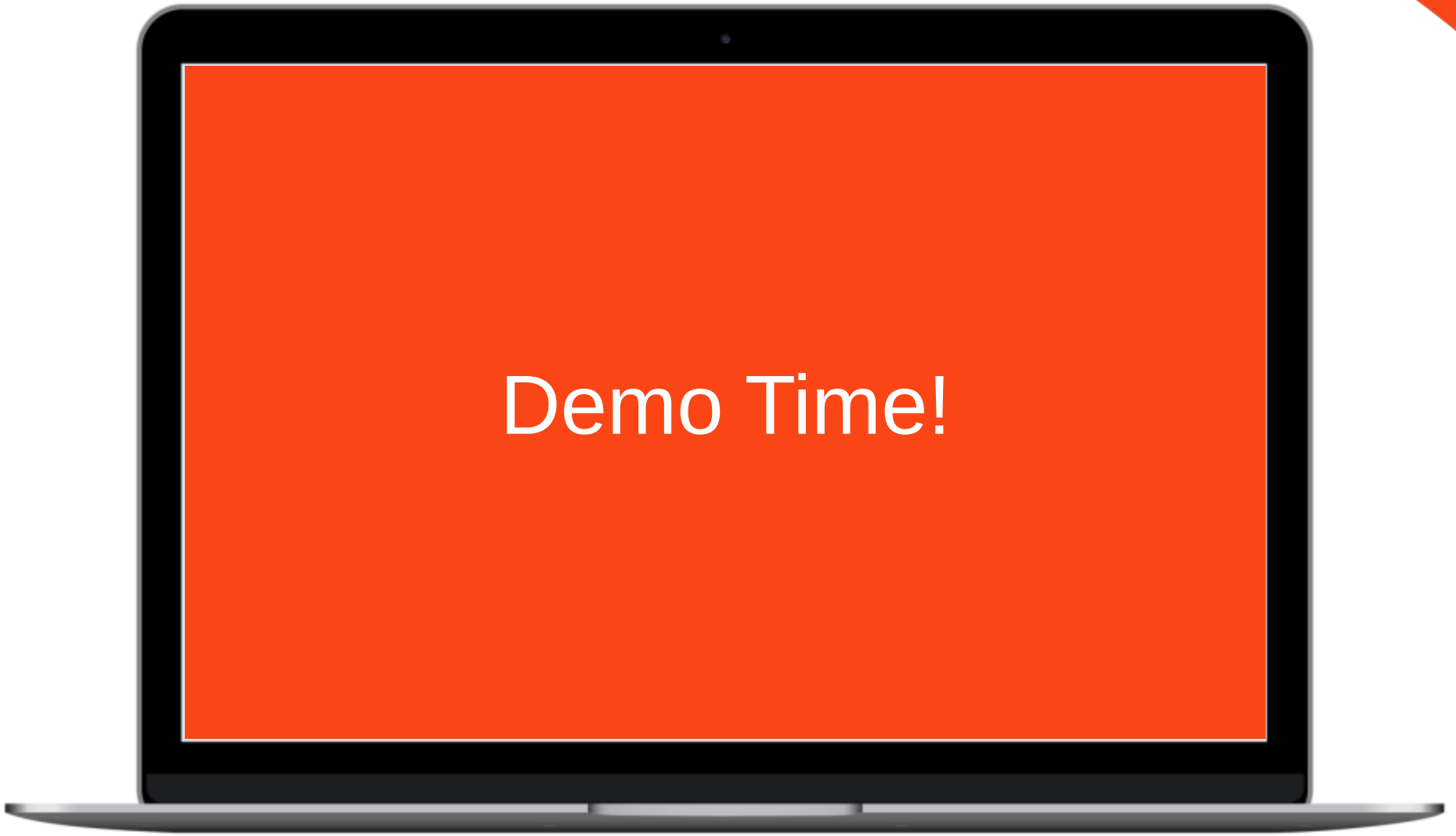
1 Choose a model

2 Build an ML Skill in **UiPath AI Center**

3 Drag and drop ML Skill into RPA workflows in **UiPath Studio**

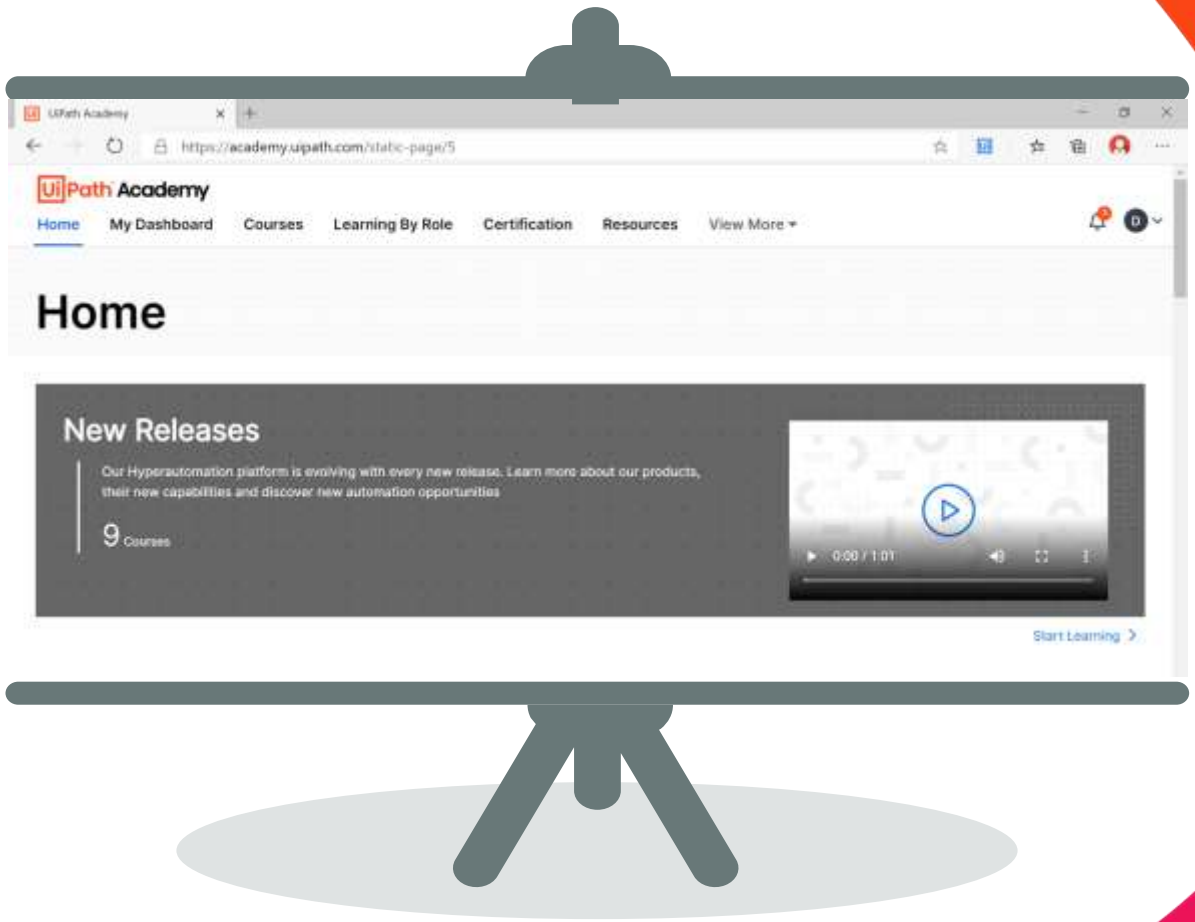



Demo Time!

# UiPath Academy

The UiPath Academy empowers you to grow as a professional and reach new heights in the digital era by providing latest study materials on RPA.

- Open online platform offering free RPA training
- Helps you to progressively build your automation skills with the help of a variety of courses
- Take on-demand courses, enroll in role-based learning paths, and get comprehensive product training.
- To Know more visit… https://bit.ly/37k1MoW



# UiPath Community

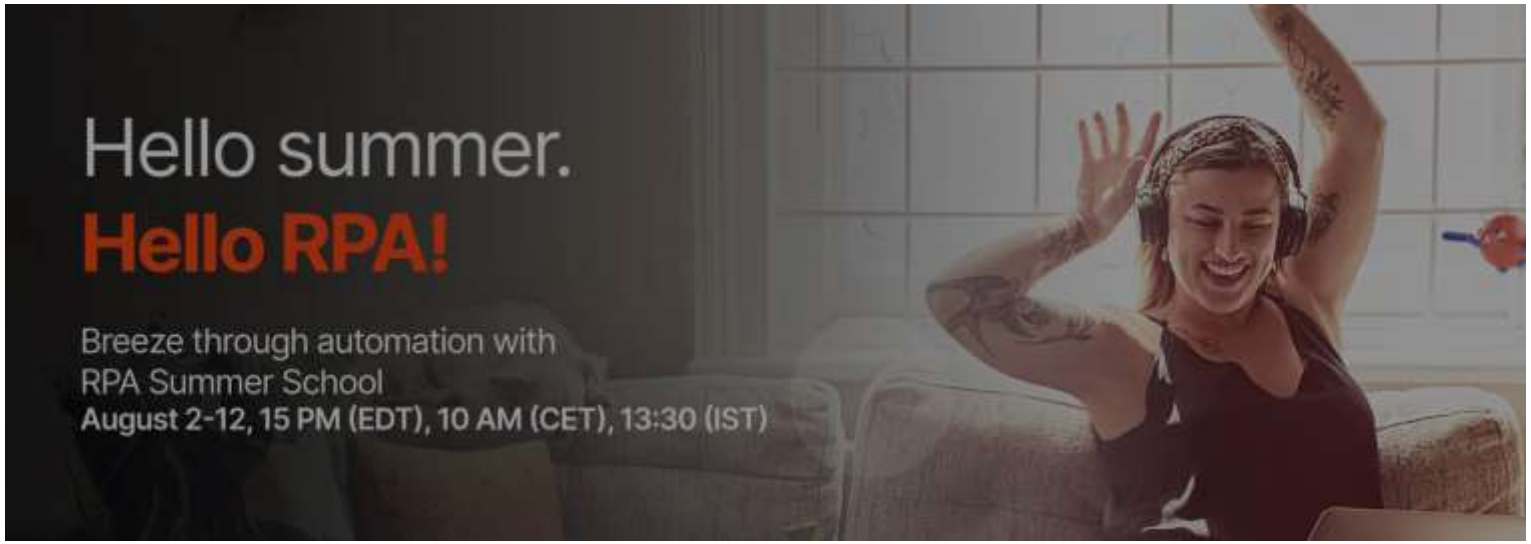
UiPath Community

Vibrant ecosystem of nearly **1 million professionals** and **citizen developers** learning, getting support, and succeeding together in their **automation careers**.

| | |
|---|---|
| **Automation Cloud** | • Start with the free Community Edition to get trained and certified |
| **Academy** | • Learn the skills of the future on UiPath Academy or through our Academic Alliance<br>• Earn globally recognized credentials with UiPath Certifications |
| **Forum** | • Get crowdsourced support and share product feedback on UiPath Forum<br>• Check the product documentation<br>• Join the Insider Preview for early testing |
| **Community Events** | • Connect with like-minded people and share best practices with the UiPath Community<br>• Solve challenges in engaging hackathon competitions<br>• Join meetups and conferences |
| **Blog and Tutorials** | • Access the latest articles and video tutorial content created by community members and UiPath engineers in our Community Blog<br>• Contribute as an author. |
| **UiPath Community MVPs** | • Get recognized as a Most Valuable Professional (MVP)or one of the Forum Leaders, based on the contribution to others' growth |

**Join the UiPath Community**

https://community.uipath.com/RPASummerSchool/




https://community.uipath.com/events/details/uipath-hackathons-presents-uipath-hyperhack-2022/

# Thank You