



SPARK DATABOX

# UiPath Workshop

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# Agenda

**RPA Introduction**

**Why RPA?**

**RPA tools**

**A Case study**

**RPA Trending Market**

**What is the Market Share of RPA?**

**Test Automation vs RPA**

**Pros and Cons of RPA**

**UiPath Introduction**

**What is IPA?**

**How Artificial Intelligence and RPA work together?**

**Automation vs. hyper automation**

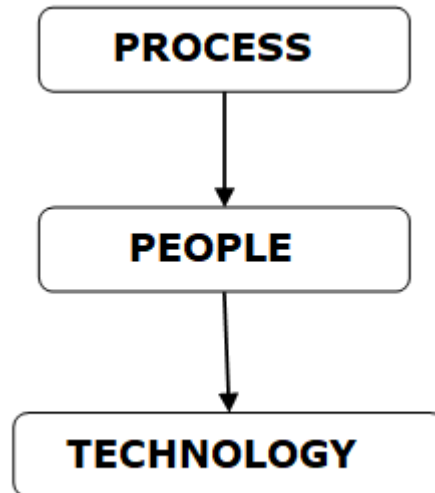
**Q & A Session**

# Robotic Process Automation – Introduction

- ▶ Robotic Process Automation (RPA) is a software program that imitates human actions while interacting with a computer application and accomplishing automation of repetitive, rule-based processes
- ▶ In other words, we can say that RPA is a software program that imitates human actions while interacting with a computer application and accomplishing the automation of repetitive and rule-based processes. RPA can be used to automate the labor intensive tasks such as back office processes, data entry, data validation etc.

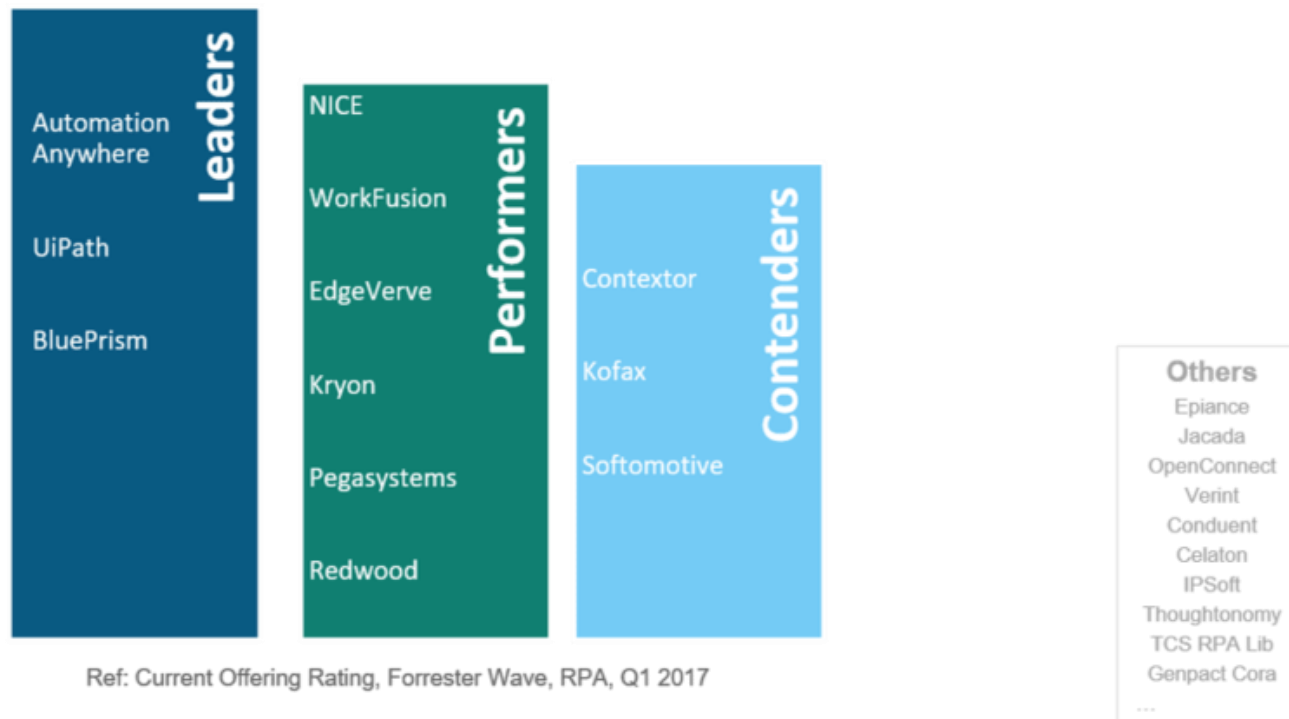
# Why RPA?

- ▶ In today's scenario of typical enterprises, RPA can be used to fill the gap between systems and process. A typical enterprise is having the following scenario:





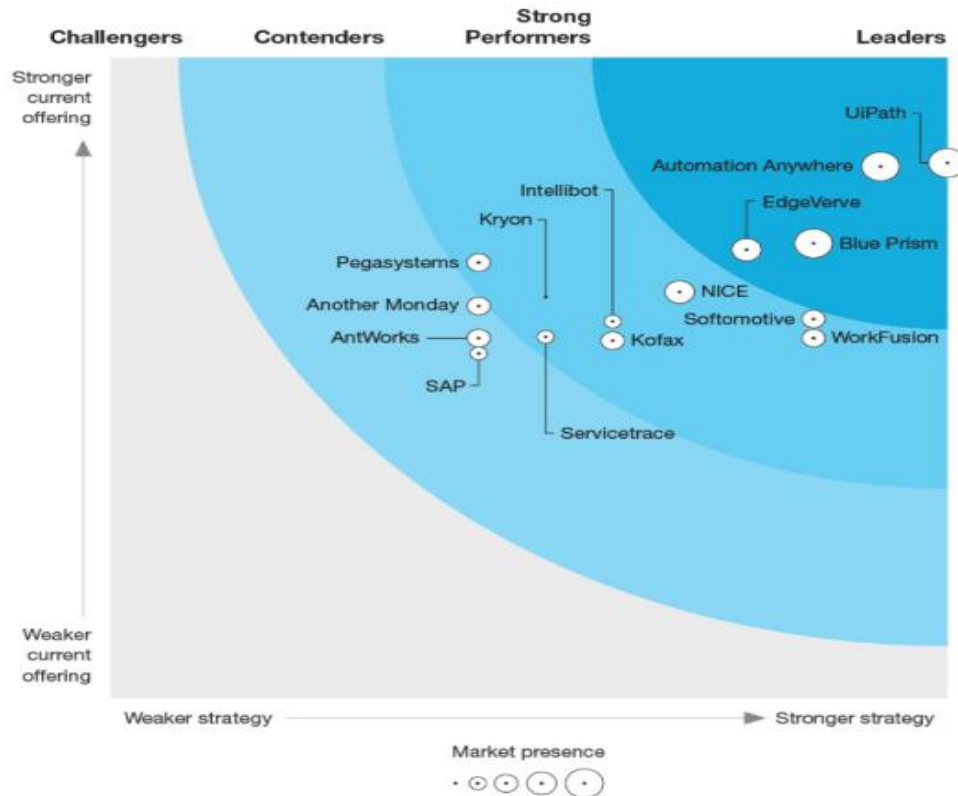
# RPA TOOLS



Ref: Current Offering Rating, Forrester Wave, RPA, Q1 2017

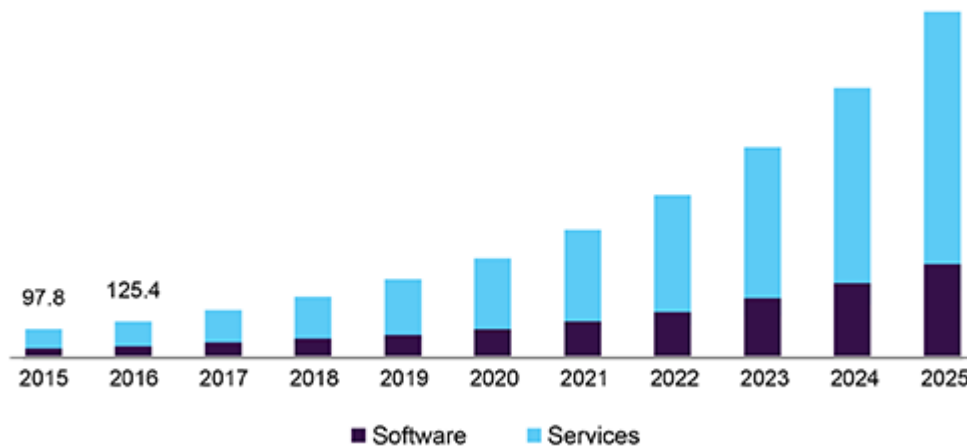
# Case Study..

**THE FORRESTER WAVE™**  
 Robotic Process Automation  
 Q4 2019



# RPA TRENDING MARKET

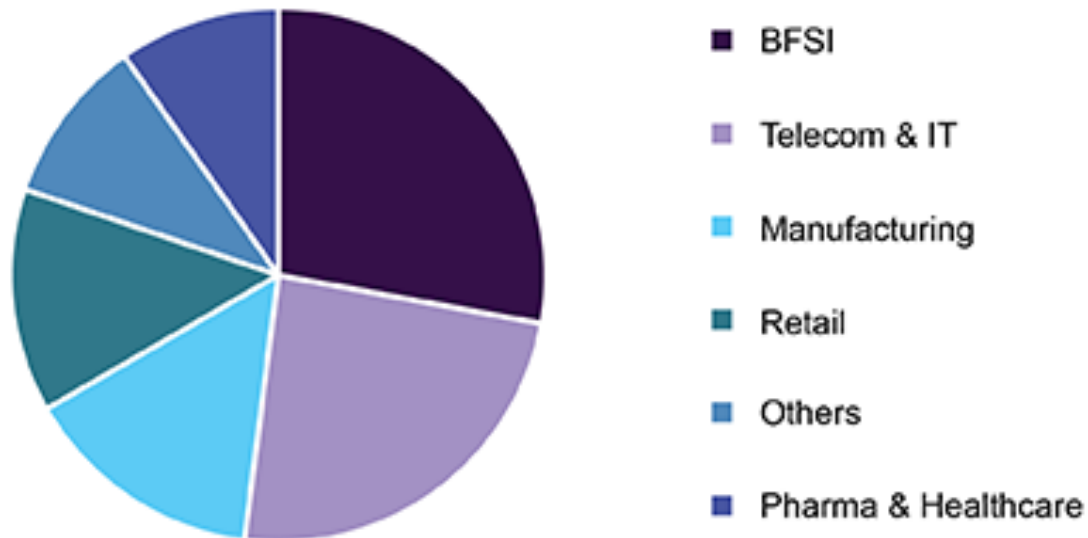
U.S. RPA market size, by type, 2015 - 2025 (USD Million)



Source: [www.grandviewresearch.com](http://www.grandviewresearch.com)

# RPA Market Share

Global RPA market share, by application, 2018 (%)



Source: [www.grandviewresearch.com](http://www.grandviewresearch.com)



# Test automation v/s RPA

- ▶ **Goal:** The main goal of test automation is to reduce test automation time through automation. On the other hand, RPA's goal is to reduce headcounts through automation.
- ▶ **Coding skills:** Test automation requires coding skills to create test scripts. RPA is wizard-driven and does not require any coding skills.
- ▶ **Implementation:** Test automation can automate a product only. On the other hand, RPA can automate products as well as service.

# Test automation v/s RPA Cont..

- ▶ **Users:** As discussed test automation requires technical skills, hence it is limited to only technical people; however RPA can be used by non-technical persons too.
- ▶ **Application:** Test automation can be run on quality assurance, production and UAT environments, but RPA can usually run only on production environments.
- ▶ **Example:** The best example of test automation is automated test cases. On the other hand, the examples of RPA are data entry, forms, loan processing etc.

# Pros & Cons of RPA

## Pros

Some advantages of using RPA are as follows:

- ▶ Reduces human efforts and thus the related human errors too.
- ▶ Improves productivity by saving cost and time.
- ▶ Offers real time visibility into bug discovery.
- ▶ Suitable for the usage by non-technical persons too, as no programming skills are required to use it.
- ▶ Easy to automate large number of processes.
- ▶ Feature of tracking the defects for each test cases.
- ▶ Needs less training to master RPA tool.

## Cons

Some disadvantages of using RPA are as shown:

- ▶ Need to reconfigure the robots for small changes in application.
- ▶ Dependency of bots on the speed of application.

# UiPath Introduction

## What is UiPATH?

- ▶ UiPath Studio software solution allows automating repetitive office tasks. It is founded by Romanian entrepreneur Daniel Dines in the year 2005. It converts boring tasks into automation process can work with multiple tools.

# What is IPA?

## Intelligent Process Automation

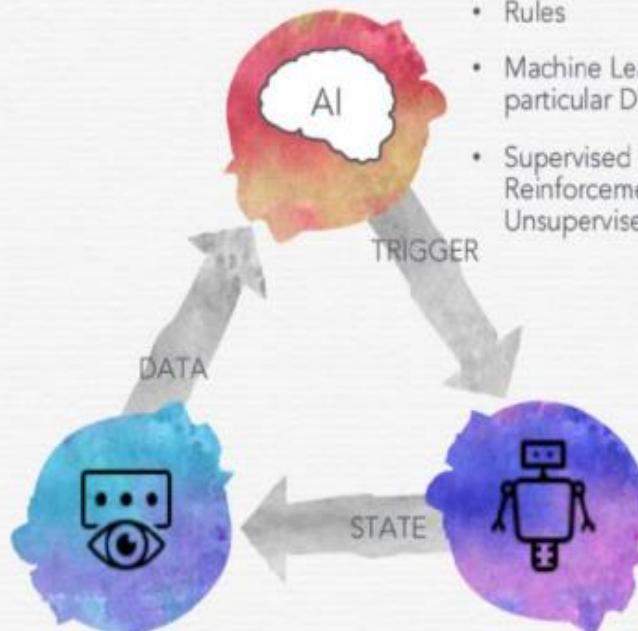
- ▶ Intelligent Process Automation (IPA) refers to the application of Artificial Intelligence and related new technologies, including Computer Vision, Cognitive automation and Machine Learning to Robotic Process Automation.

# How it Works

DIGITAL LABOUR = AI + RPA

## SENSE

- Computer Vision
- Unstructured Data
- Data Models



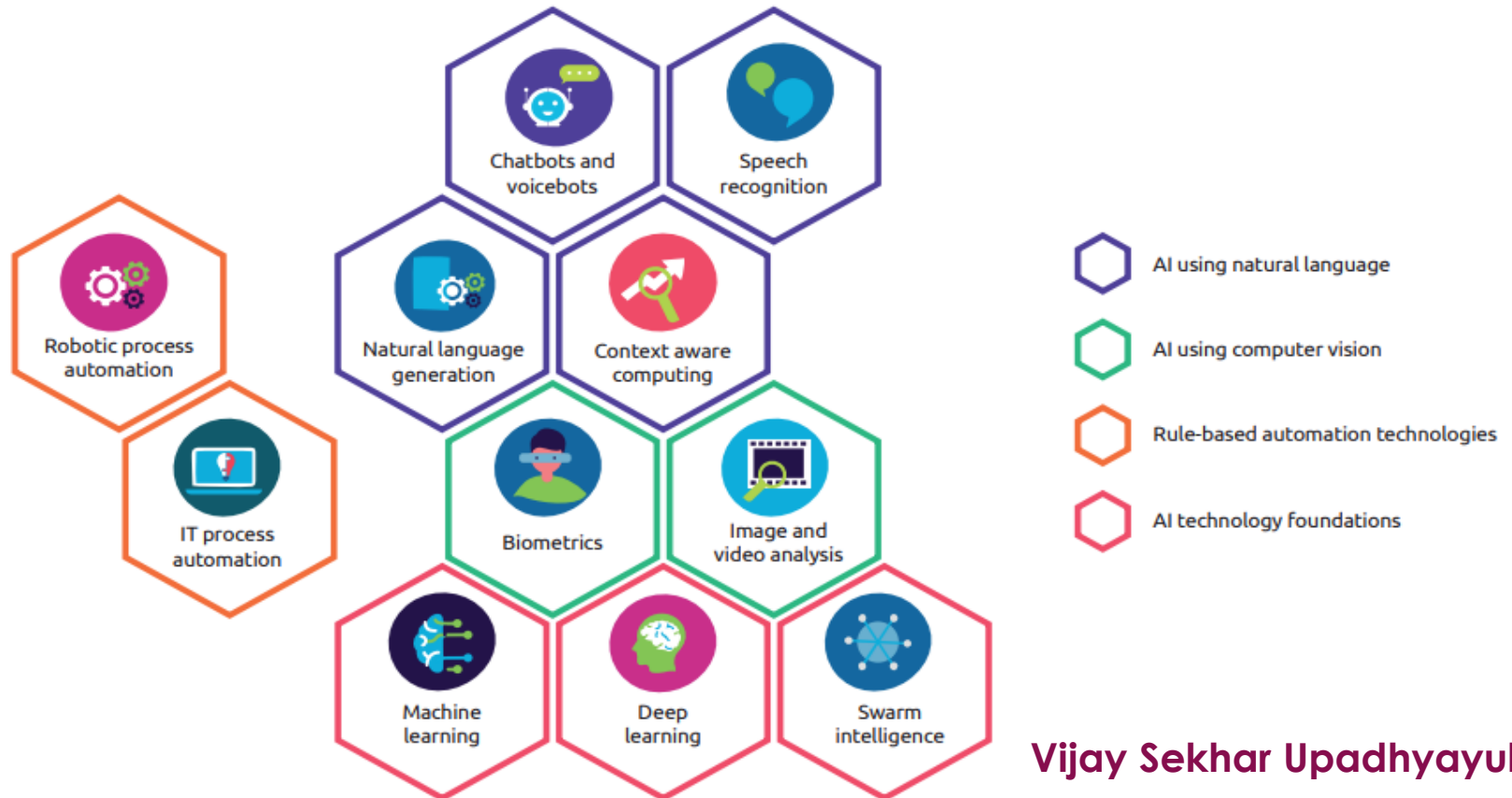
## THINK

- Rules
- Machine Learning in particular Deep Learning
- Supervised Learning, Reinforcement Learning, Unsupervised Learning

## ACT

- Robotic Process Automation
- Workflows + APIs
- Computer Command Scripts / Programs
- Mechanical Robotics

# RPA Integration with AI and ML



# Automation vs. hyperautomation

- ▶ According to Gartner, “Hyperautomation refers to an approach in which organizations rapidly identify and automate as many business processes as possible. It involves the use of a combination of technology tools, including but not limited to machine learning, packaged software and automation tools to deliver work.”





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# Questions?



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