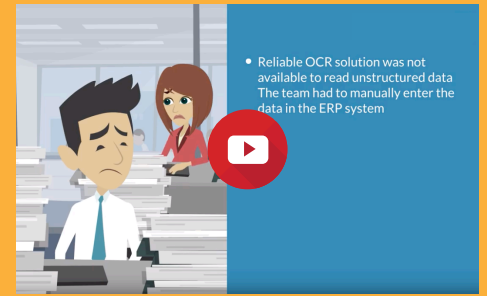# Integrating Robotic Process Automation (RPA) with Machine Learning based intelligent OCR system

An RPA use case involving V2's proprietary Machine Learning tool with UiPath Robot to extract data from unstructured documents and posting it in ERP system

Problem Statement

A large manufacturing unit having numerous vendors was repetitively pin pointed by the management due to the delay in invoice processing. A discussion with the team highlighted two reasons: large number of invoices received from their various vendors and absence of reliable OCR solution. The staff had to manually enter the data in the ERP which resulted in delay. As the invoices received were in multiple languages, they had to hire new resources or opt for outsourcing. The overall situation demotivated the employees and strained the relationships with the vendors.

Solution

Analysing the complexity of the process, we suggested implementation of RPA to automate the mundane operations like data entry to ERP systems whereas V2's proprietary Doc2Digital invoice processing engine was used to extract input from invoices.

Process

- All scanned invoices are periodically stored on a network drive
- A robot keeps checking the drive for new files for processing.
- As soon as a new invoice is available, it is read, and the content is passed to V2's proprietary solution "Doc2Digital" for parsing
- The engine can read invoices in multiple languages and returns the meaningful data in paired values
- Now the invoice data is in structured format, Robot then logs in to the ERP system to post the invoice data
- Invoices that cannot be processed by a robot are kept separate for manual entry and are used to train the engine further

Time Saved	Accuracy	Tools	Third Party Services
Nearly 60%	70-85%	UiPath, X	

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