IN-D brings identity document processing integration to Blue Prism platform which makes customer onboarding process for organizations faster, cheaper and more accurate

Blue Prism's Technology Alliance Program (TAP) partnership with IN-D adds smart identity document processing solution using Artificial Intelligence to Blue Prism Robotic Process Automation (RPA) to minimize the time required for processing identity (KYC) documents. This integration adds the critical skill of identity document processing to Blue Prism Intelligent Automation, giving enterprises the ability to filter out badly scanned documents, classify different identity documents and extracts the data from it within a Blue Prism Digital Worker's defined workflow.

Identity Document Processing and Underwriting

IN-D AI engine is built using machine learning and computer vision techniques to classify the identity documents and extract necessary fields from it in Blue Prism's Digital Workforce.

The following are the identity documents and the respective fields IN-D AI engine can classify and extract:
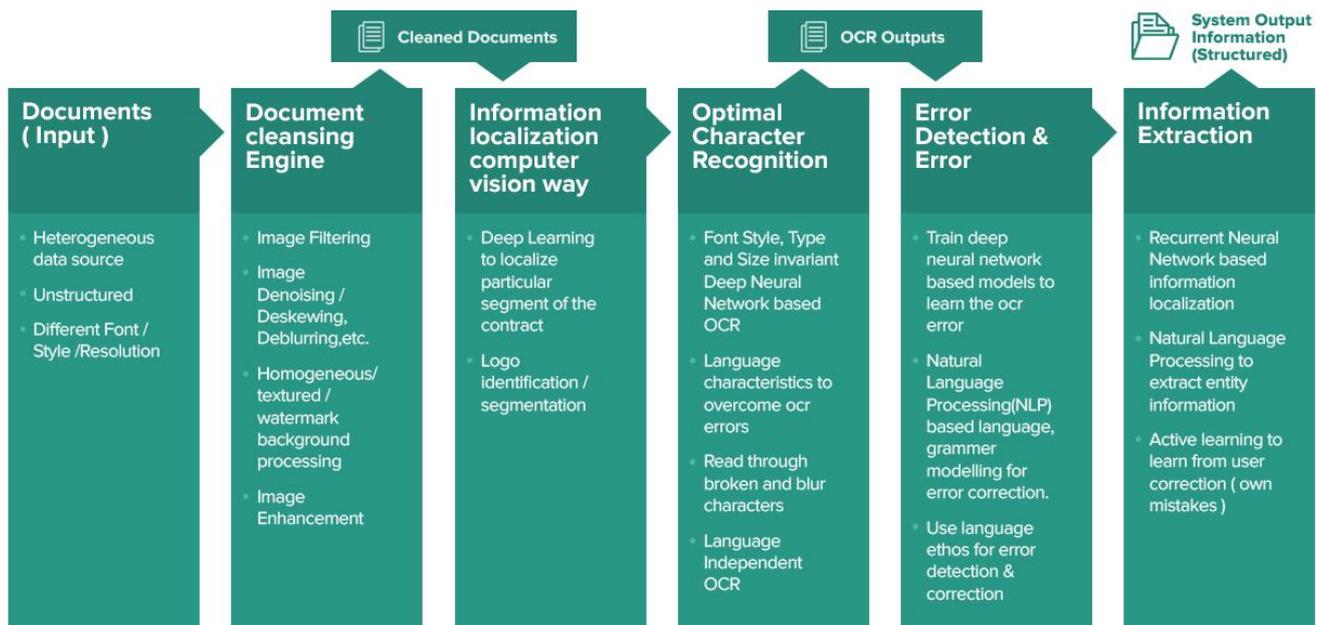
- Aadhaar Card – (Aadhaar Number, Candidate Name, DOB, Gender, Address & Spouse/Father Name)
- PAN Card – (PAN Number, Candidate Name, DOB, Father Name)
- Voter ID – (Voter ID, Name, Father Name, DOB, Gender, Address)
- Passport – (Candidate Name, Surname, Date of Expiry, Date of Birth, Passport Number, Place of Birth, Address, Father Name, Mother Name, File Number)
- Driving License – (Name, Father Name, DOB, Number, Validity)

The combination of IN-D technology and Blue Prism's Digital Workforce lets enterprises take a much deeper dive into intelligent data extraction from KYC documents. IN-D firstly indicate the end-user whether the input image is good enough to extract and notify for rescanning the document. Next, IN-D classifies the document and mention the document type, extracts necessary fields from the document, and exports it over to a Blue Prism digital worker for processing following enterprise goals and requirements.

How it works

The following is how IN-D Identity Document Processing VBO works

- **Capture** – Capture the identity document from the BP workflow
- **Classify** – Automatically classify all the documents – also tells the quality of the captured document, notifying the end-user to scan the document again
- **Extract** – Extract the required fields from the document
- **Export** - Export all the data required in the BP workflow

Documents (Input)	Document cleansing Engine	Information localization computer vision way	Optimal Character Recognition	Error Detection & Error	Information Extraction
• Heterogeneous data source • Unstructured • Different Font / Style /Resolution	• Image Filtering • Image Denoising / Deskewing, Deblurring,etc. • Homogeneous/ textured / watermark background processing • Image Enhancement	• Deep Learning to localize particular segment of the contract • Logo identification / segmentation	• Font Style, Type and Size invariant Deep Neural Network based OCR • Language characteristics to overcome ocr errors • Read through broken and blur characters • Language Independent OCR	• Train deep neural network based models to learn the ocr error • Natural Language Processing(NLP) based language, grammer modelling for error correction. • Use language ethos for error detection & correction	• Recurrent Neural Network based information localization • Natural Language Processing to extract entity information • Active learning to learn from user correction (own mistakes)

Blue Prism & IN-D: Digitize Documents and helps in Business Decisions & Workflow

As the pioneer of the most robust, secure, and highly scalable Digital Workforce, Blue Prism's focus is on delivering an agile workforce that follows rules-based business processes and interacts with systems in the same way human users do – and that complements both traditional and leading edge IT solutions such as Business Process Management (BPM), OCR, AI, machine learning, and front and back office productivity tools.

IN-D technology focus on the identity document classification and extraction – applying machine learning, and computer vision technologies to identify, classify and extract data from the identity documents, export the required fields from the documents faster, cheaper and more accurate

- IN-D gives enterprises the benefit of high-quality document processing, the ability to classify documents automatically, detecting fields and capturing the required data
- IN-D loads document files and captured data into the Blue Prism document management system for a faster, cheaper and more accurate alternative of a traditional back-office operations
- IN-D + Blue Prism RPA also gives enterprises the benefit of early and clear visibility of any incoming document (the quality of document incoming) informing the field agent or the end-user to rescan the document at once it is uploaded

Summary

The Blue Prism/IN-D integration gives enterprises easy access to "drag-and-drop" artificial intelligence for **instant connection to IN-D's smart document processing solution – all while building a digital worker's workflow within Blue Prism**. IN-D's ability to digitize, classify, and extract data from identity documents – plus Blue Prism RPA – lets organizations easily automate the identity document processing from end-to-end, and facilitate a deeper dive into the data extraction process. IN-D uses AI technologies to take in identity documents; filter bad quality images, classify the document type, extract the required fields; and then pass on specific enterprise-driven actions to Blue Prism Digital Workers.

About Blue Prism

As the pioneer, innovator and market leader in Robotic Process Automation, Blue Prism (AIM: PRSM) delivers the world's most successful Digital Workforce. Blue Prism provides a scalable and robust execution platform for best-of-breed AI and cognitive technologies and has emerged as the trusted and secure RPA platform of choice for the *Fortune 500*. For more information, visit www.blueprism.com.

About IN-D by Intain

IN-D is a brainchild of a team comprising of a leading financial services executive, an AI researcher, a software entrepreneur, and a blockchain architect.

Intain is a research based technology venture that combines the power of Artificial Intelligence and Blockchain Technology, founded by Financial Services business and technology veterans. We understand the impact – benefits and risk – of technology in financial services. Our employees work in an environment that blends a research lab and a start-up. We are committed to diversity in Fintech and more than 50% of our current employees are women. Our teams are based out of Chennai and Pune in India, Singapore (Intain Fintech Pte Ltd), and the US (Intain Inc). Intain is backed by Hamon Investment Group and Blockseed Ventures.