UiPath Document Understanding combines robotic process automation (RPA) and artificial intelligence (AI) to help you extract and interpret data from different documents and ensure end-to-end document processing. The tool works with a wide range of documents from structured to unstructured, recognizes different objects like tables, handwriting, signatures, or checkboxes, and can deal with various file formats.

Benefits

- Fast, accurate, and flexible document processing with AI
- Built to process various document types
- Accuracy improving over time
- Out-of-the-box AI solutions
- End-to-end automation of complex processes

What features are included?

Composable Document Understanding framework

Document Understanding provides a composable framework of drag-and-drop activities used to build end-to-end workflows in Studio. This way UiPath RPA platform enables automation of more complex and cognitive processes involving high volumes of documents. In addition to the native capabilities, you can bring your own models or incorporate leading partner solutions extending the framework to diverse document types and business needs.

Data extraction: from regular expressions to AI to a hybrid approach

Extractors based on rules and intelligent templates perfectly handle documents with fixed structure, tables, handwriting, signatures, checkboxes. Pre-trained machine learning (ML) models can process less structured documents with minimal configuration time. Finally, you can combine any extractors in a hybrid approach to ensure the highest accuracy for your custom business documents.
Human validation
In the case of any inaccuracies, low confidence scores, or exceptions, robots ask for help to confirm the data. An employee receives a notification and opens Validation Station or Classification Station to validate data and handle exceptions in the extraction or classification results. Here you can also review all the extracted fields if needed to make sure the data is processed accurately.

Retraining capabilities
You can retrain ML models in AI Fabric to help robots understand the specificities of your documents. Similarly, the models can be retrained automatically based on the human input in the Validation Station and Classification Station. This means that the more you work with the model, the more effective it becomes. Thus, the accuracy of the output improves over time.

How does it work?
1. Load taxonomy
   Define files and data for extraction
2. Digitize
   Use OCR to detect text and its location
3. Classify
   Classify the documents from the list
4. Extract
   Extract information from the documents
5. Validate
   If needed, a human can confirm the extracted data
6. Retrain
   Retrain the models to improve their accuracy
7. Export
   Export the extracted info for further usage

Automate document processing with intelligence, speed, and scale

Sign up for the Enterprise Cloud trial to leverage UiPath Document Understanding for your business challenges
https://www.uipath.com/start-trial

For more details, please visit us at: uipath.com/document-understanding