

ABSTRACT

Collecting data from invoice documents to be utilized as a company data recap is one of the processes that are frequently done when processing invoices. Therefore, a method to extract pertinent information from invoice documents with various formats is required. Invoices frequently include brief keyword phrases or common terms like "sold to," "delivered to," "invoice number," "item," and "quantity," among others. An optical character recognition (OCR) engine is frequently used to extract data or information from invoices, however it still has limitations. In this study, robotic process automation (RPA) and artificial intelligence (AI) are suggested to improve extraction results.

For automated invoice processing, an RPA-based robot connected with Machine Learning (ML) Document Understanding via the UiPath AI Center is employed. The ML Document Understanding model can be automatically trained by the robot that will be created has a good level of accuracy.

From the results of the research that has been carried out, the author has succeeded in making invoice document extraction robots using the RPA method that is integrated with ML Document Understanding. With the result in the form of ML Skills with data field accuracy rate of 97% and content accuracy level of 96% which succeeded in extracting invoice documents better and more efficiently.

Keywords: *Artificial Intelligence, Document Understanding, Invoice, Machine Learning, Robotic Process Automation, UiPath*