Document Analyzer

Aim

To create an application which can extract data from any documents and store them.

Technologies

Amazon Web Services, Docker, Python/C#, Machine Learning/OCR.

Features

- Amazon Textract uses Optical Character Recognition (OCR) technology to automatically detect printed text, handwriting, and numbers in a scan or rendering of a document, such as a legal document or a scan of a book.
- Form Extraction: Amazon Textract enables you to detect key-value pairs in document images automatically so that you can retain the inherent context of the document without any manual intervention.
- Table Extraction: Amazon Textract preserves the composition of data stored in tables during extraction. This is helpful for documents that are largely composed of structured data, such as financial reports or medical records that have column names in the top row of the table followed by rows of individual entries.
- Handwriting Recognition: Many documents such as medical intake forms or employment applications contain both handwritten and printed text. Amazon Textract can extract printed text and handwriting from documents written in English with high confidence scores, whether it is free-form text or text embedded in tables and forms. Documents can also contain a mix of typed text or handwritten text.
- Document Text Detection: It can help to detect all the words and hence sentences from the document. This can be use to further process or get the information from the form.

Use Cases

- Financial Services (Mortgage apps, invoices, receipts)
- Healthcare and Life Sciences (Healthcare and Insurance forms)
- Public Sector (loans, federal tax forms)

Pros

- It's fast, reliable and efficient.
- It can recognize any sort of handwritten document/forms.
- It provides confidence scores.
- Easy to use.

Cons

Requires internet connectivity.

Samples

