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Overview of Document AI

Document organizing and understanding platform by Google

Documents are everywhere. Emails, blogs, reports, receipts, bills, etc. But can you use them as is to build some processes, calculations, applications? For example, you have a directory of purchase-receipts, can you build an app to query all those receipts with total less than \$100. You can't. Because those receipts are just scanned images, right? Such data is called 'unstructured' data, as it is without any query-able structure or schema. Opposite to that, ie 'structured' data, is arranged as, say, key-value pair or in a tabular form. Once data becomes 'structured' it becomes usable in downstream applications, calculations, predictions, etc.


Document AI by Google is one such platform, that stores documents and helps understand them as well, ie. it makes 'unstructured' data usable by making it 'structured'. Following sketchnote gives an overview of Document AI.

Document AI*

by
GOOGLE

* Artificial Intelligence
(Doc AI)

WHY

- Nearly all businesses begin, include or end with documents. 
- Most of it is unstructured

 80%. (==)

 Structured (==)
- Essential to make it structured to be useful in application

 Document
 AI (Doc AI)
 Unstructured → Structured
- Earlier, manual conversion was cost ↑, error ↑, laborious ↑
- Doc AI makes it easy 😊


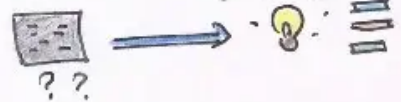
Modes

- Standard - General - Ready
- Custom - AutoML - Your data
- Specialized - niche needs

Advantages

- Any type of document
- Democratizes Machine Learning
- Less Time to Market
- Less Training data
- Own your data, free training


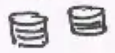


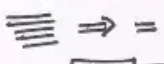
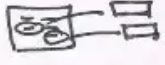
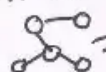
DOC AI is

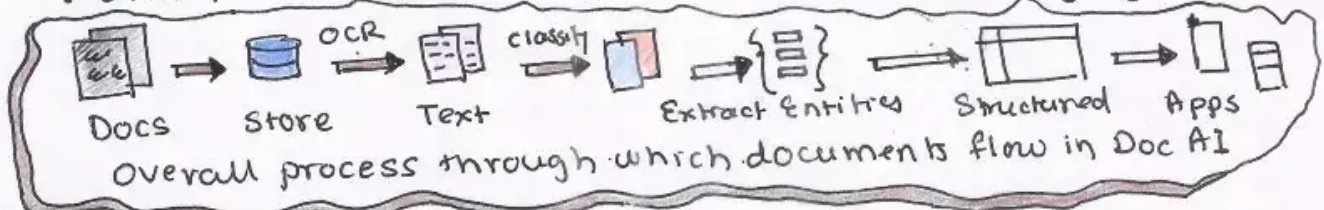
- An unified platform for
- Organising docs 
- Understanding docs 

Involves

- OCR (Optical character Recognition)
- NLP (Natural Language Processing)
- DW (Data Warehousing)

Applications

- Document classification 
- Content data warehouse 
- De-identification/redaction 
- Search & retrieve 
- Summarization 
- Entity Extraction 
- Handwritten Text recognition
Yogesh Kulkarni → Yogesh KULKARNI
- Translation mmm → www...
- Knowledge Graph 



For more details : Google Cloud Tech (Youtube), developers.google.com/learn/topics/document-ai

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With platforms like Document AI, it is possible to unearth the hidden information, the gold. Once data becomes structured, then its application can be numerous, sky is the limit.

Document Ai

Google Cloud Platform

Sketchnote

Naturallanguageprocessing

Machine Learning