



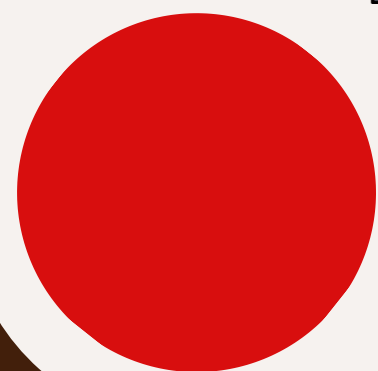
O . C . R

OPTICAL CHARACTER RECOGNITION





Struggling with tedious data entry?

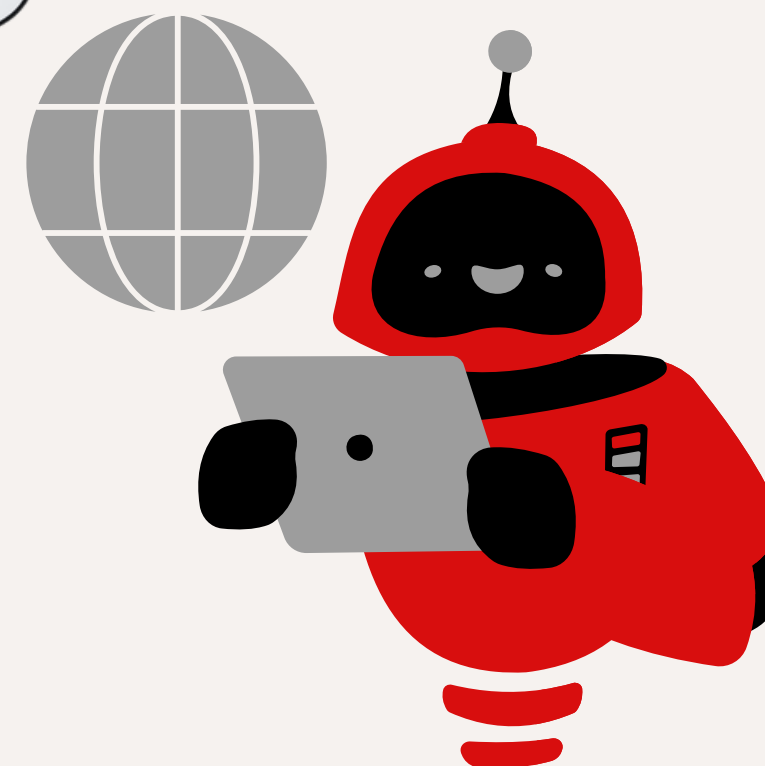
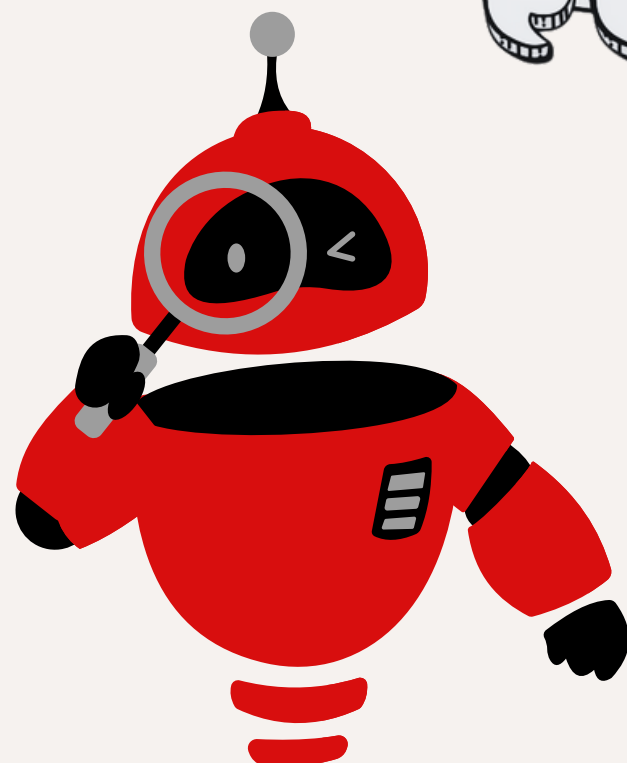


**OCR is here to simplify
your workflow!**



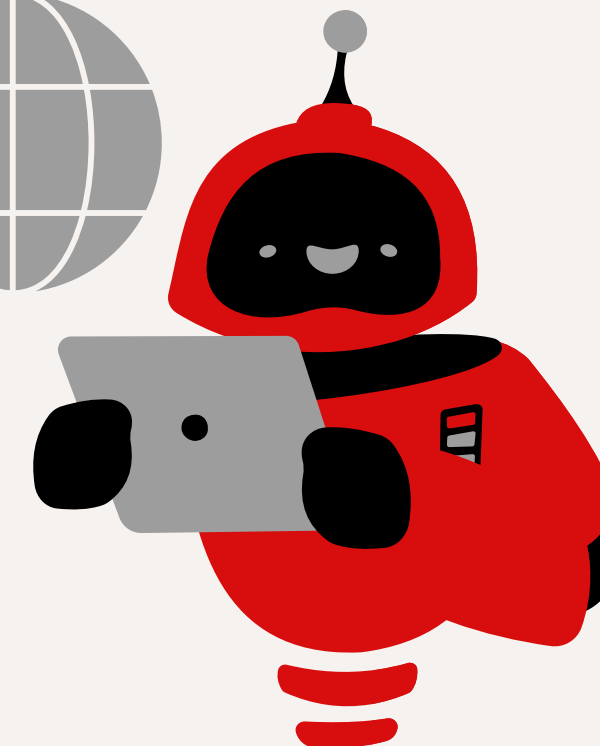
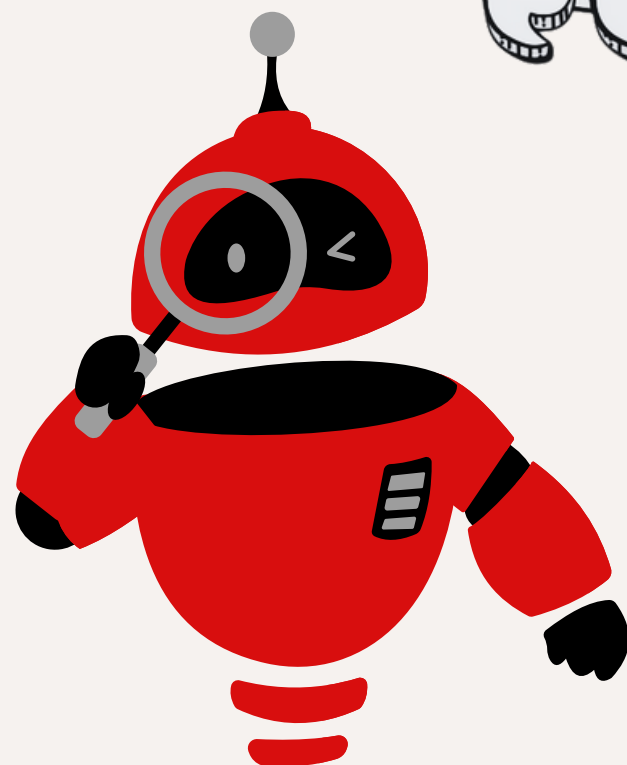
Hey, Nexus did ever
tired of manual data
entry? Its really hectic
and stressful

Hello, Nova Yeah, I
totally get it !
But what if I told you
there's a way to make it
easier?



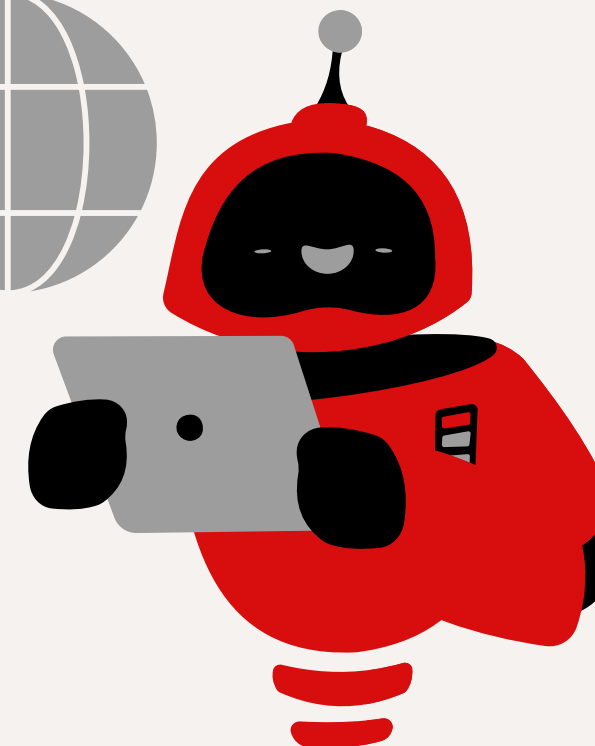
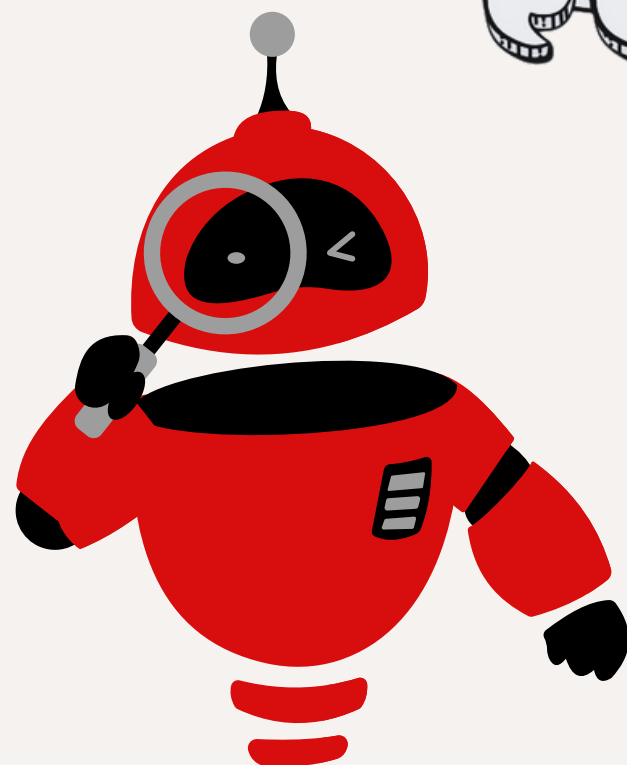
Is it so ?

with OCR, we quickly
convert images to text



That means less time
on paperwork and
fewer errors.

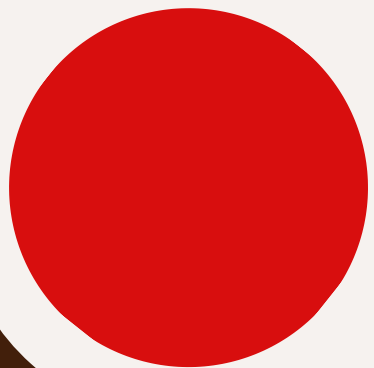
Exactly! OCR
streamlines
everything, making
work easier.



Introduction

OCR

Optical character recognition (OCR), a technology used for converting different types of documents, such as scanned paper documents, PDF files or images captured by a digital camera into editable and searchable data. OCR has played a significant role in digitizing printed texts to allow for editing, searching, and virtual storage.



Different Libraries

Tesseract

PyTesseract

EasyOCR

OCR.space

Amazon Textract

Google Cloud Vision

Adobe SDK

ABBYY SDKs

Keras OCR

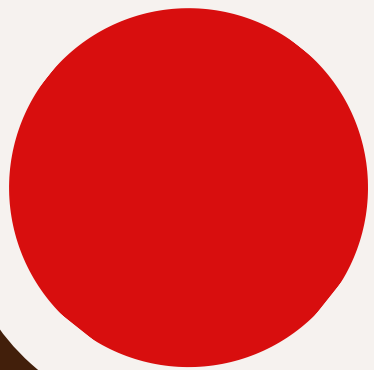
GOCR

PDFMiner

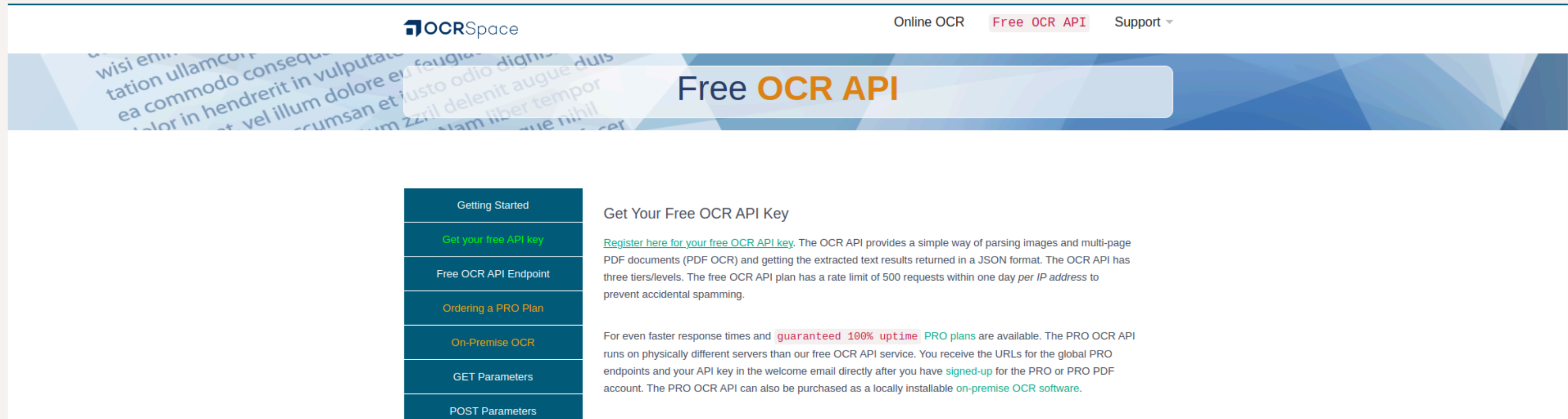
OCRopus

Tutorial Using OCR.Space

This is an OCR API that allows developers to extract text from images. It offers a Python wrapper for the API, which is efficient and easy to use.



Get your API key from OCR.space. You get this key by signing up on OCR.space



The screenshot shows the OCR.space website. The header includes the OCRSpace logo, navigation links for 'Online OCR', 'Free OCR API', and 'Support', and a large banner for 'Free OCR API'. A sidebar on the left contains a menu with links: 'Getting Started', 'Get your free API key', 'Free OCR API Endpoint', 'Ordering a PRO Plan', 'On-Premise OCR', 'GET Parameters', and 'POST Parameters'. The main content area is titled 'Get Your Free OCR API Key' and contains text about the OCR API, including a link to 'Register here for your free OCR API key' and details about the free plan's rate limit and the availability of PRO plans.

OCRSpace

Online OCR **Free OCR API** Support

Free OCR API

- Getting Started
- Get your free API key**
- Free OCR API Endpoint
- Ordering a PRO Plan
- On-Premise OCR
- GET Parameters
- POST Parameters

Get Your Free OCR API Key

[Register here for your free OCR API key](#). The OCR API provides a simple way of parsing images and multi-page PDF documents (PDF OCR) and getting the extracted text results returned in a JSON format. The OCR API has three tiers/levels. The free OCR API plan has a rate limit of 500 requests within one day *per IP address* to prevent accidental spamming.

For even faster response times and **guaranteed 100% uptime** **PRO plans** are available. The PRO OCR API runs on physically different servers than our free OCR API service. You receive the URLs for the global PRO endpoints and your API key in the welcome email directly after you have [signed-up](#) for the PRO or PRO PDF account. The PRO OCR API can also be purchased as a locally installable [on-premise OCR software](#).

- **click on Free OCR API**
- **Login using mail (Confirm ur mail)**
- **You will recieve the Free API In mail**

- **You need the requests library in Python installed. Install it using pip if you don't have it already.**
- Use the API key you recieved in mail.
- **Write a Python program. In the program, use the requests library to send HTTP requests to OCR.space. The API endpoint is <https://api.ocr.space/parse/image>.**
- In your request, send your API key as a parameter along with your image file on which you want to perform the OCR.
- **After sending the request, OCR.space will process the image and return the recognised text in the response. You can integrate with Frontend for better interface.**

CAPTURE

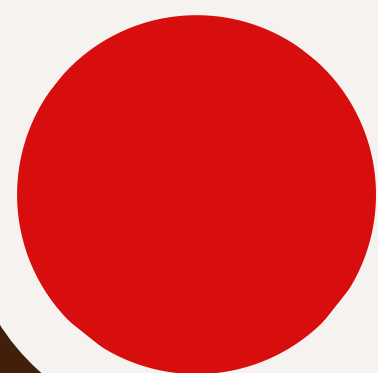
Utilize cutting-edge OCR technology to extract and digitize text from images and documents with precision and reliability.

PROCESS

Implement OCR systems to efficiently convert scanned text into editable and searchable formats, streamlining data workflows.

OPTIMIZE

Continuously improve OCR accuracy by fine-tuning models and adapting to new fonts and formats, ensuring seamless text recognition.



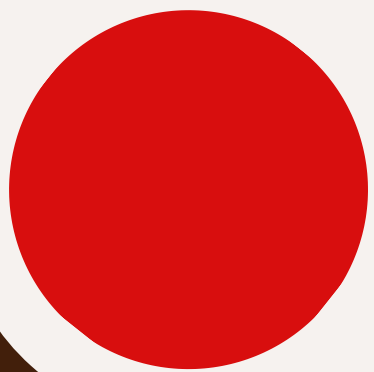
Challenges

Accuracy and quality of OCR can be influenced by several factors such as

1. Poor image quality and skewing.
2. Complex layouts of the document to be scanned.
3. Variations in text size, font, style.
4. In case of handwriting recognition, variability in handwriting styles poses a significant challenge.

Conclusion

OCR as a field has advanced significantly over the years due to advancements in computer vision and machine learning. However, the challenges in OCR provide opportunities for further research and improvement. Python's contribution with its efficient libraries has extended the potential of OCR implementations. The applications of OCR are broad, and they are becoming increasingly integrated into our digital experiences.



Thank you