I see that your **OCR.zip** contains:

* config.cfg → the configuration file
* config\_OCR.py → your main Python OCR script

To run this code on a **new Windows machine**, you need to set up the environment with all required dependencies and configure Tesseract + Google Vision.

**✅ Step 1: Install Python**

* Install **Python 3.10 or 3.11 (64-bit)** from [python.org](https://www.python.org/downloads/windows/).
* During installation, check **“Add Python to PATH”**.

**✅ Step 2: Create Virtual Environment**

Open **Command Prompt (cmd)** and run:

cd path\to\OCR

python -m venv venv

venv\Scripts\activate

**✅ Step 3: Install Required Packages**

Create a requirements.txt with the following:

pillow

pytesseract

opencv-python

numpy

pymupdf # for fitz (PDF handling)

google-cloud-vision

Then install:

pip install -r requirements.txt

**✅ Step 4: Install Tesseract OCR**

* Download **Tesseract for Windows**:  
  [UB Mannheim Build](https://github.com/UB-Mannheim/tesseract/wiki)
* Install it, and note the path, e.g.:
* C:\Program Files\Tesseract-OCR\tesseract.exe
* Update your config\_OCR.py with:
* pytesseract.pytesseract.tesseract\_cmd = r"C:\Program Files\Tesseract-OCR\tesseract.exe"

**✅ Step 5: Configure Google Vision API (Optional but Supported)**

1. Create a **Google Cloud Project**, enable **Vision API**, and download a **service account JSON key**.
2. Place the JSON key file on your machine, e.g. C:\keys\vision-key.json.
3. Set the environment variable:
4. set GOOGLE\_APPLICATION\_CREDENTIALS=C:\keys\vision-key.json

**✅ Step 6: Configure Your App**

* config.cfg should already have your settings (thresholds, etc.).
* Make sure any paths inside config.cfg are updated for your new machine.

**✅ Step 7: Run the OCR Script**

From your OCR folder:

venv\Scripts\activate

python config\_OCR.py sample.pdf