# PDF to Excel Extraction Tool Documentation

#### **Overview**

This tool extracts tabular data from PDFs and saves it as structured Excel files. It scans a given folder for PDFs, processes each file, and generates an Excel file with the extracted table data.

#### **Features**

- Processes all PDFs in a specified folder.
- Extracts text while preserving tabular structure.
- Saves extracted data as an Excel file.
- Automatically creates an output folder if it doesn't exist.

# **Prerequisites**

Ensure you have Python installed. The tool requires the following dependencies:

## **Required Libraries**

- pdfplumber (for extracting text from PDFs)
- pandas (for handling and exporting table data)
- openpyx1 (for writing Excel files)

#### Installation

Run the following command to install the necessary packages:

## pip install pdfplumber pandas openpyxl

## **How to Use**

## 1. Prepare Your PDFs

Place all PDFs you want to process inside a folder named pdfs (or any other folder of your choice).

#### 2. Run the Script

Execute the Python script:

python table\_extractor.py

#### 3. Output Location

The extracted Excel files will be saved in a folder named extracted\_tables (created automatically if it doesn't exist). Each Excel file will be named after the corresponding PDF.

#### **Folder Structure**

# **Example**

# **Notes**

- Ensure PDFs contain structured tabular data; unstructured text may not be properly formatted.
- Adjust the vertical\_threshold and gap\_threshold in the script if column alignment needs improvement.

# **Troubleshooting**

# 1. Missing Dependencies

If you see an error about missing modules, re-run:

### pip install pdfplumber pandas openpyxl

## 2. No Output Generated

- Check if the pdfs/ folder contains valid PDFs.
- Ensure the PDFs have recognizable text (scanned images may not work without OCR processing).