

## Prerequisites

1. **Install Python (>=3.8)**
2. **Install Required Dependencies:**

```
pip install gpt4all pandas pdfplumber
```

3. **Ensure the AI Model is Downloaded:**
  - Go to GPT4All
  - Download **Llama-3.2-1B-Instruct** model (.gguf file)
  - Place it in the GPT4All model directory:

```
C:/Users/YOUR_USERNAME/AppData/Local/nomic.ai/GPT4All/models/
```

## Execution Steps

1. **Open Command Prompt (cmd) and Navigate to the Script Directory:**

```
cd C:\Users\ YOUR_USERNAME \Folder
```

2. **Run the Script:**

```
python Solution_DataProfiling_Local_Model.py --pdf FR_Y-14Q20220930_i.pdf --section "H.1 - Corporate Loan Data Schedule" --dataset sample_transactions.csv
```

## Troubleshooting

- **DLL Loading Error (0x7e):**
  - Install **Microsoft Visual C++ Redistributable** from [here](#)
  - Restart your computer and try again.
- **Model Not Found:**
  - Verify the .gguf model file is in the correct path.
- **Validation Errors:**
  - Ensure the dataset follows the correct format before running validation.

## Expected Output

- The validated dataset will be saved as `validated_output.csv`
- Any errors or logs will be printed in the console.