

## **Draft Assignment for AI Intern**

### **Assignment Title:**

AI-Powered Document Structuring & Data Extraction Task

**Timeline: 2 days**

### **## Objective**

You are required to design and implement an AI-backed solution that transforms an unstructured document into a structured Excel output.

### **## Assignment Requirements**

#### **### 1. Input → Output Transformation**

Using the file “Data Input.pdf”, build code (Python preferred, but any language is acceptable) that automatically converts the content into the structured format demonstrated in “Expected Output.xlsx.”

Your solution should:

- Accurately extract all information from the PDF
- Identify logical relationships between elements
- Format the extracted data into tabular Excel output
- Do not pre-define the keys in the code, let LLM determine the key.

#### **### 2. Key:Value Relationship Detection**

The code must:

- Determine key:value pairs within unorganized or semi-structured text
- Place each extracted pair into appropriate Excel columns
- Add additional contextual notes (pulled from the PDF content) into a “Comments” column
- Maintain clarity and logical coherence in determining what constitutes "context"

### ### 3. Complete Data Capture

You must ensure:

- 100% of the content in “Data Input.pdf” is captured in the Excel output
- Nothing is lost, nothing is summarized, or nothing is omitted
- Multi-line or complex textual structures are faithfully represented
- We will test your submission against other page text readable documents (no need of OCR)

### ### 4. Preserve Original Language

Where possible:

- Retain the exact original wording, sentence structure, and phrasing from the PDF
- Avoid paraphrasing unless required to form a clean key:value pair
- Do not introduce new information
- Feel free to use LLM of your choice

### ### 5. Deliverables

At the end of the assignment, please provide:

1. GitHub repository containing:

- Source code
- README with usage instructions
- Any model files or dependencies

2. A live demo hosted on a temporary domain or we can do a screenshare call and run through the code output live.

3. Final generated “Output.xlsx” for evaluation

### ### 6. Communication Requirement

Before starting the task:

> Please reach out with any questions or clarifications to ensure the process remains effective and organized.