**ML Engineer Test Task: Contract Conditions Extraction and Verification**

**Objective:** This task aims to assess the candidate’s ability to effectively use language models to analyze complex text documents and apply extracted information for automation tasks.

**Task Description:**

1. **Conditions Extraction from the Contract:**

• You will be provided with a contract text containing various terms and constraints for work execution (e.g., budget constraints, types of allowable work, etc.).

• Your task is to extract all key terms from the contract and structure them in a JSON format. Terms may be related to different sections and subsections of the contract, which should be reflected in your JSON.

2. **Task Descriptions Analysis:**

• You will be given a CSV file containing descriptions of tasks that need to be performed according to the contract. Each description is accompanied by a cost estimate.

• Develop a system that analyzes each task description for compliance with the contract conditions. If a task description violates one or more conditions, the system should specify the reason for the violation.

**Technical Requirements:**

• Use the OpenAI API, Langchain, and other LLMOps tools of your choice to complete the task.

• Develop a user interface where documents and task tables can be uploaded and analysis results can be displayed.

• Provide the code on GitHub and make the interface publicly accessible for testing.

**Expected Outcomes:**

• A JSON file with extracted and structured contract conditions.

• A user interface that allows for the uploading of documents, analysis of tasks, and display of verification results.

• Documentation on system operation and each component of the task (github + readme)

**Additional Tasks (optional but beneficial):**

• **Handling Ambiguous Cases:** Develop methods for handling situations where it is unclear from the description of the completed work whether it may contradict the contract terms.