# **Internship Task**

# **1.TECH STACK USED:**

The task is performed using Python and LangChain. LangChain is a framework that is built around LLMs. LangChain provides modules for managing and optimizing the use of language models. We have used "text-davinci-003" model which belongs to the GPT-3 model family.

### 2.PROMPTS USED:

We have used PromptTemplate to generate the questions for each Job Profile and FewShotPromptTemplate for evaluating the profiles.

# **3.QUESTIONS GENERATED:**

**Job Sector: Agriculture** 

**Job Category: Engineering** 

**Job Title: Crop Monitoring Technician** 

1. What experience do you have in agriculture engineering?

- 2. What technical skills do you possess related to crop monitoring?
- 3. How do you stay up to date with the latest developments in agriculture engineering?
- 4. What challenges have you faced in the past when working on crop monitoring projects?
- 5. How do you ensure that crop monitoring projects are completed on time and within budget?

**Job Sector: Engineering** 

**Job Category: Quality Assurance and Control** 

**Job Title: Quality Inspector** 

- 1. What experience do you have in engineering?
- 2. What specific quality inspection techniques have you used?
- 3. How do you ensure that quality standards are being met?
- 4. What methods do you use to prevent defects and reduce costs?
- 5. How have you implemented quality assurance and control processes in your previous positions?

**Job Sector: Refineries** 

**Job Category: Operations and Productions** 

**Job Title: Field Operator** 

- 1. What experience do you have in refineries operations and production?
- 2. How have you handled challenging situations while working in a refinery?
- 3. What safety protocols have you employed while working as a field operator?
- 4. Describe a successful project you have completed in the refinery operations and production field.
- 5. What methods have you used to optimize the efficiency of refinery operations and production?

### 4.HOW THE TASK WAS PERFORMED?

- 1. Firstly we generated an API key from OpenAI. This API key provides a powerful API to interact with a wide variety of models. It can be used to perform any task that involves understanding and generating natural language.
- 2. Then we imported OpenAI package from LangChain and created our model using "text-davin ci-003" model of OpenAI.
- 3. Then we imported PromptTemplate package from LangChain to create our prompts.
- 4. After that we defined our template and our input variables to generate the questions.

- 5. Then we create our final prompt by formatting the prompt and feeding it the respective Job Sector, Job Category and Job Title.
- 6. Then we use our model to print the questions that are generated and we do this for each Job Profile respectively and get 5 questions each.
- 7. After the questions generation we import FewShotPromptTemplate from LangChain to find out the most relevant Job Profile.
- 8. Now we create our examples and our example template and prompt example from our created template.
- 9. Now we create our FewShotPromptTemplate object and feed it all the important information that includes examples, example-prompt, prefix, suffix, input variable and example separator.
- 10. Then we pass our query as input variables and use our created language model to print the desired result that gives us the most relevant Job Profile.

**SUMMARY**: We used LangChain and imported the important modules to create prompts that he -lped us to generate questions and then used FewShotPromptTemplate to evaluate the relevant profile.