AI Automation Internship Assignment

Objective:

This assignment evaluates the ability to build automation workflows and perform data scraping and analysis. This solution focuses on Task 1 - YouTube Video Finder with Analysis.

Workflow Steps:

1. Accept voice or text input in Hindi/English.

2. Use YouTube Data API to fetch top 20 recent (last 14 days) videos matching the query.

3. Filter videos with durations between 4 to 20 minutes.

4. Send video titles to GPT-4o for relevance analysis.

5. Return and display the most relevant video.

Code Implementation Summary:

The Python script utilizes YouTube Data API to search for videos based on the user's query. Video titles are analyzed using OpenAI's ChatGPT 4o to determine the most relevant content. The solution is modular and can be extended with voice input or webhooks.

Technologies Used:

- Python

- YouTube Data API v3

- OpenAI ChatGPT 4o

- Google API Client

- datetime and requests libraries

Sample Input/Output:

Input: 'Best AI tools in 2024'

Top 20 videos fetched from YouTube.

ChatGPT returns the most relevant title: 'Top 10 AI Tools You Must Try in 2024'