**Assignment: Building an LLM-Powered Application**

## Objective:

Participants will apply their learning from the course by building an AI-powered application using models offered by DeepInfra. The goal is to develop an application that allows users to generate personalized stories based on their inputs, similar to an AI-driven interactive storytelling platform.

## Assignment Overview:

- The application should leverage models available on DeepInfra.
- The app should include a frontend (UI) where users can provide inputs and receive AI-generated content.
- The backend should handle interactions with the LLM, process user inputs, and generate relevant outputs.
- Participants should focus on response quality

## Key Features to Include:

1. **User Input Mechanism:** A simple and intuitive UI for users to get required inputs
2. **LLM Interaction:** The backend should communicate with DeepInfra models to generate responses.
3. **Personalized Content Generation:** The AI should tailor responses based on user input.

## Example Inputs:

1. **Genre:** Users select a genre such as fantasy, mystery, or sci-fi to shape the style of the story.
2. Number of Characters: User can get the number of characters as input, It could be a count or names
3. Number of Paragraph/Sections: User get the number of paragraph as limit for the Story.

## Expected Outcomes:

By completing this assignment, participants will:

- Gain hands-on experience in integrating LLMs into real-world applications.

- Learn to interface with DeepInfra APIs and handle AI-driven workflows.
- Build a functional AI-powered application that demonstrates creativity and problem-solving.
- Understand challenges like latency, prompt engineering, and response optimization.

**Good Add-on:**

1. Generate an individual Image per paragraph based on the content (as part of the first request)
2. Give a summary/preface
3. Implement additional changes on top of the first story generated