

## **Project Documentation**

**Name:** Sonali Choudhary

**Organization:** Armada IQ

**Mentors:** Rick Chakra

**Task 4.1:** Understanding the requirement of the Kids Screenplay project

- Client wanted a Web App. The user can input genre, character information, VFX, etc details to generate the screenplay having information of each character, screens and shots.

**Status:** Complete

**Task 4.2:** Built a Streamlit App for the frontend

- Created the interface between user (frontend) and LLMs (Backend). Made a Streamlit frontend having all the user inputs fields.

**Status:** Complete

**Task 4.3:** Built LLMs Backend Pipeline

- Built LLMs Backend Pipeline and integrated it with the Streamlit frontend.
- Used the ChatGPT API and Anthropic API to generate images and screenplay respectively.

**Status:** Complete

**Task 4.4:** Generated a Document and Cover image

- Generated the document having the screenplay details and Built LLMs Backend Pipeline and integrated it with the Streamlit frontend.
- Used the ChatGPT API and Anthropic API to generate images and screenplay respectively.

**Status:** Complete

**Task 4.5:** Testing and Evaluation

- Tested and evaluated the final LLM integrated pipeline.

**Status:** Complete

**Outcomes:**

1. Successfully integrated the Streamlit frontend and LLMs Backend.
2. The pipeline runs without crashing.
3. Performing updates on the pipeline to incorporate the clients' requirements.

**Takeaways/Lessons Learned:**

- Learnt integrating Streamlit with LLMs
- Learnt how to use LLMs to perform end to end pipeline using prompt engineering

**Risk to project:**

Performing prompt engineering was not generating perfect output. After using JSON LLM started generating the correct output.

Strategy: Performing prompt engineering to make LLM understand what is expected from it using JSON formatting.