

## **Hackathon Problem Statement:**

**Challenge:** Design and develop an AI-powered tool that streamlines the process of creating short-form video content from long-form audio and video sources.

## **Current Landscape:**

Creating engaging short-form video content for social media platforms is time-consuming and requires significant manual effort. This is especially challenging for creators who produce long-form content like podcasts, webinars, and educational videos.

- **Manual content editing:** Manually identifying and editing the most engaging moments from long-form content is a tedious and laborious task.
- **Time constraints:** Creators often struggle to keep up with the demand for fresh, engaging content across multiple social media platforms.
- **Lack of resources:** Small creators and businesses may not have the resources or expertise to create high-quality short-form video content.

## **Your Mission:**

Develop an innovative AI-powered tool that addresses these challenges and empowers creators to efficiently generate captivating short-form video content from their long-form sources.

## **Inspiration:**

By creating an AI-powered tool that automates and simplifies short-form video content creation, you can empower creators to save time, resources, and effort while producing engaging content that resonates with their audience.

## **Key functionalities:**

- **Automatic Highlight Identification:** Leverage AI algorithms to identify the most engaging and impactful moments within long-form content.
- **Short Clip Generation:** Automatically generate short video clips based on the identified highlights, allowing for customization and editing.

- **Automated Content Creation:** Utilize AI to automatically generate titles, descriptions, and captions for the short clips, saving creators valuable time and effort.
- **Seamless Integration:** Integrate with popular content creation platforms and social media channels for efficient publishing and distribution.

#### Evaluation Criteria:

- **Effectiveness:** Ability to accurately identify engaging moments and generate high-quality short-form video clips.
- **Efficiency:** Time saved by creators compared to manual editing processes.
- **User Experience:** Ease of use, intuitiveness, and user-friendliness of the tool.
- **Content Quality:** Overall quality and engagement potential of the generated short-form content.
- **Platform Integration:** Seamlessness of integration with content creation and social media platforms.

#### Bonus Points:

- Develop features for adding music, text overlays, and other creative elements to the short clips.
- Allow creators to personalize the AI model based on their specific content style and target audience.
- Integrate analytics and reporting to track the performance of the generated short-form content on social media.

#### Hints:

- **FFMPEG** – Video editing tool at suite of libraries and programs for handling video, audio, and other multimedia files and streams. Free and open source.
- **Gemini or GPT APIs** – Free to use (At some usage). Be creative over the use of these APIs.
- **Azure or Google Cloud** – Free to use APIs for TTS, STT, Transcribing
- Hosting (If needed) – Use any cloud service with a new account which offers enough credits for a basic tool, Streamlit Cloud, Hugging Face, Replit, vercel or even local systems.

**Note:**

- You are expected to develop a product that solves a problem leveraging publicly available APIs and different services, you are not expected to build AI models from scratch that would take a lot of time. Be mindful, frugal, and innovative during the process of making this.
- No restrictions on the frameworks or tech-stack that potentially can be used.