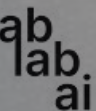
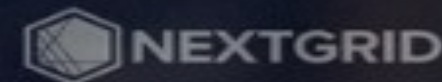


AI Agents Hackathon

Thumbnail AI: Generating Cover Images using AI



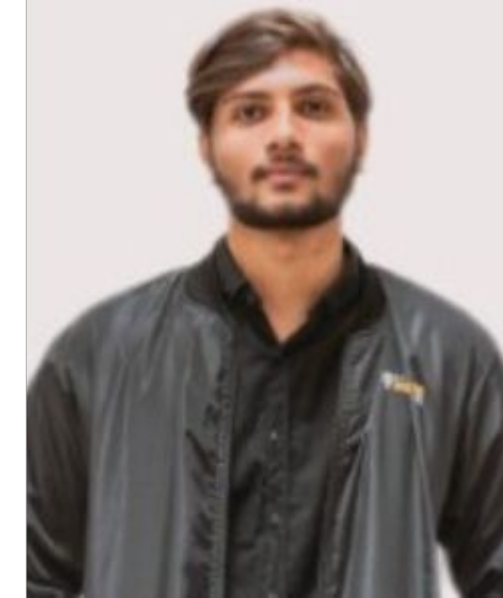
Our Team



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01. Introduction

02. Problem We solve

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01.

- Thumbnails play a crucial role in attracting viewers to YouTube videos. They serve as the first point of contact for potential viewers, enticing them to click and watch the content.
- In this presentation, we will explore how to automate the process of generating eye-catching and relevant thumbnails for YouTube videos.

Introduction

02.



- Manual thumbnail design can be time-consuming and challenging, especially for creators who produce videos regularly.
- Our Project offers an AI-driven solution to automate the thumbnail generation process, ensuring relevance to video content and providing unique and engaging visuals that attract viewers and improve video discoverability.

Problem We Solve

Technologies Used

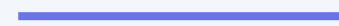
Open AI



Cohere AI



DALL-E



Hugging Face Hub



Stable Diffusion



Methodology



Summarizing videos

- We utilize the **HuggingFaceHub** model to summarize YouTube videos efficiently.
- This model is trained to understand natural language and can accurately capture the essence of the video content in a summarized format.

Thumbnail Prompts

- Thumbnail prompts serve as textual descriptions of the desired thumbnail content. We create these prompts using video summaries.
- **Cohere** plays a critical role in creating prompts, understanding the context, and generating relevant descriptions.

Image Creation

- **DALL·E** is an impressive AI model capable of generating images based on textual prompts.
- By providing the thumbnail prompts from Cohere, DALL·E and **Stable Diffusion** produces corresponding image URLs.

05.

- **HASHTAG CREATION** : Our model can be extended to analyze video content and generate relevant hashtags automatically.
- **COMPETITIVE ANALYSIS AND VIDEO IDEAS**: This model can be developed to perform competitive analysis on other videos within a specific niche. By analyzing video content, it could provide content creators with insights into successful video ideas and trends.
- **CUSTOMIZED THUMBNAILS USING VIEWER HISTORY** : It could be used to create personalized thumbnails for individual viewers based on their interests and viewing history. Customized thumbnails might improve click-through rates and viewer engagement by tailoring visuals to each viewer's preferences.

Future Aspects

thank you!

