

K Means Gamble

Domain : GenAI

PS : Generating hashtags for social media posts

Members :

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Gen-AI Hash Or Pass

Hashtag and Caption Generator



Table of A S S U M P T I O N S

01

User specifies
the input mode
as text , photo or
video

02

User specifies
the platform for
which the
hashtags should
be generated

03

The output will
be in the form of
text

Tech Stack :

Python

Streamlit , CSS , HTML

Langchain

Hugging Face

OpenAI , Gemini-Pro-Vision

Google Colab for visualization

Approch

Input Sources: The Content sources could be Text , Image , Video

Input to text conversion : The input is converted into text.

- **Image - Gemini-Pro-Vision model is used to get text from images**
- **Video - video-captioning model from HuggingFace is used to get text from images**

Approch

OVERVIEW OF OUR CUSTOM TOOLS AND AGENTS :

- KEYWORD EXTRACTOR
- HASHTAG SCRAPER
- HASHTAG GENERATOR
- HASHTAG COMPARISONS
- PERCENTAGE GROWTH INCREASE CALCULATOR
- SCRIPT WRITER

Approch

WE ARE USING LANGCHAIN AGENTS

- **LANGCHAIN AGENTS LEVERAGE THE CAPABILITIES OF LLMS TRAINED ON MASSIVE TEXT AND CODE DATASETS. THIS GRANTS THEM ABILITIES IN COMPREHENSION, TEXT GENERATION, AND TRANSLATION.**
- **UNLIKE PRE-PROGRAMMED CHAINS, AGENTS USE THE LLM AS A REASONING ENGINE TO DETERMINE THE NEXT ACTION(S) IN A SEQUENCE, BASED ON THE INPUT AND CONTEXT.**
- **YOU CAN BUILD AGENTS TAILORED TO SPECIFIC TASKS AND INTEGRATE THEM INTO YOUR APPLICATIONS SEAMLESSLY.**

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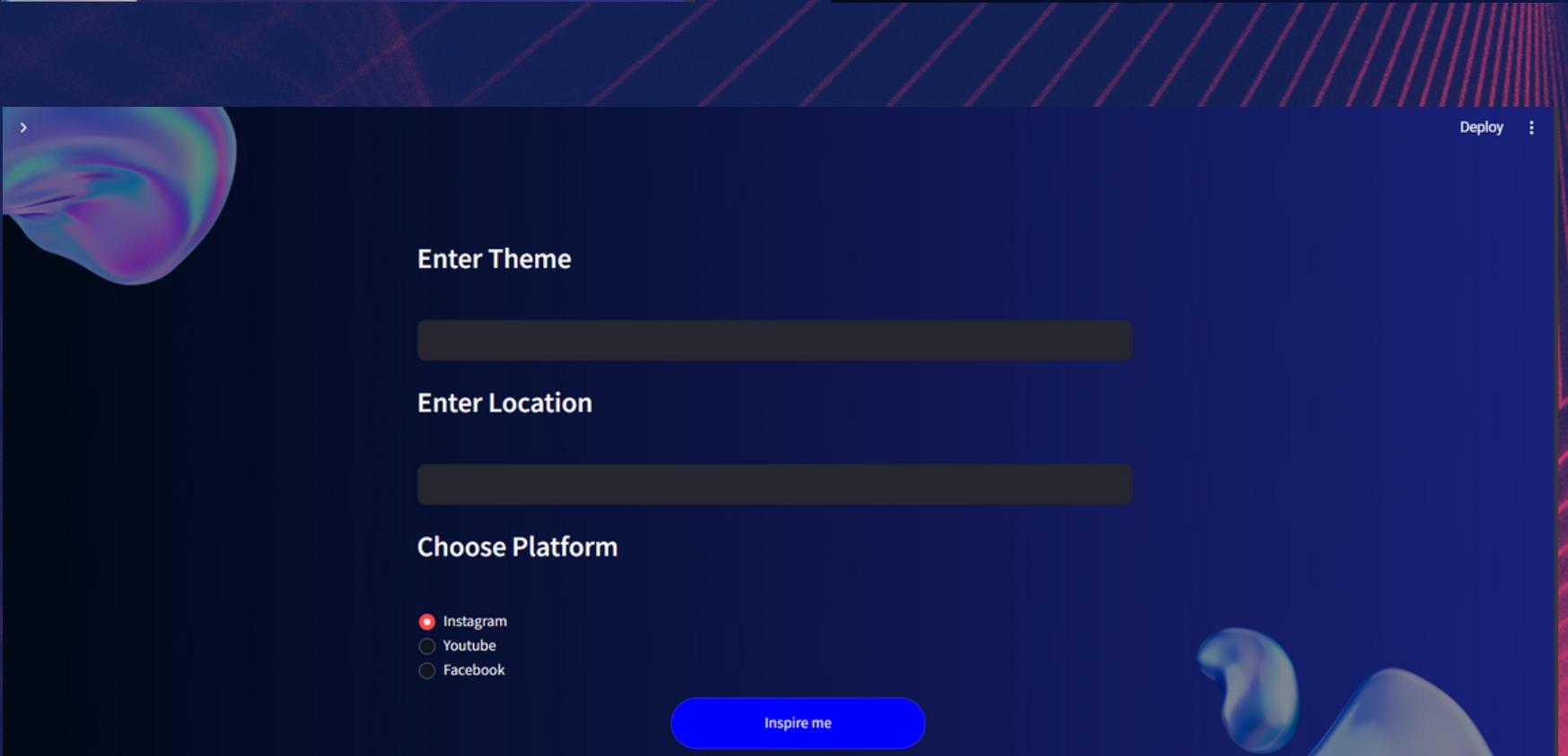
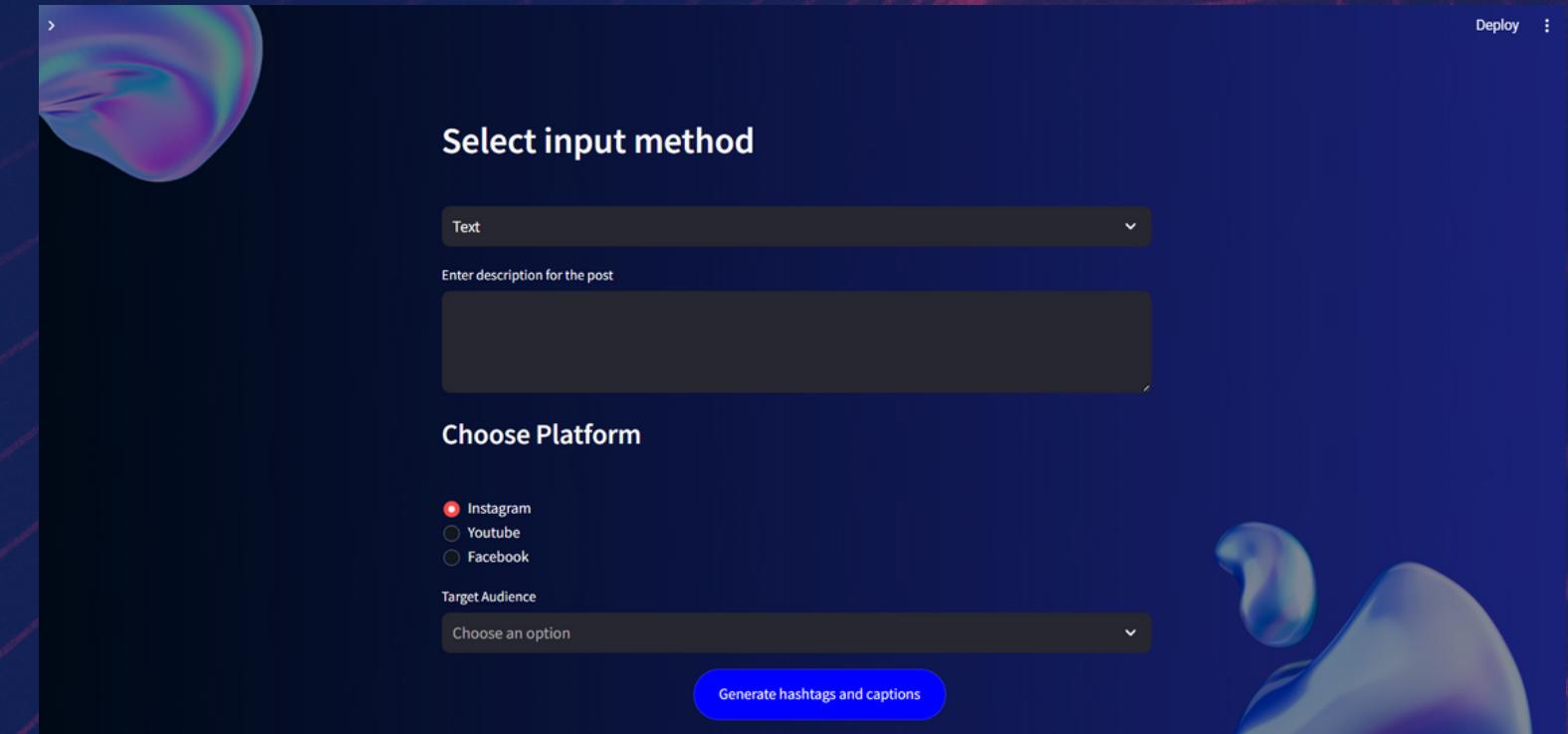
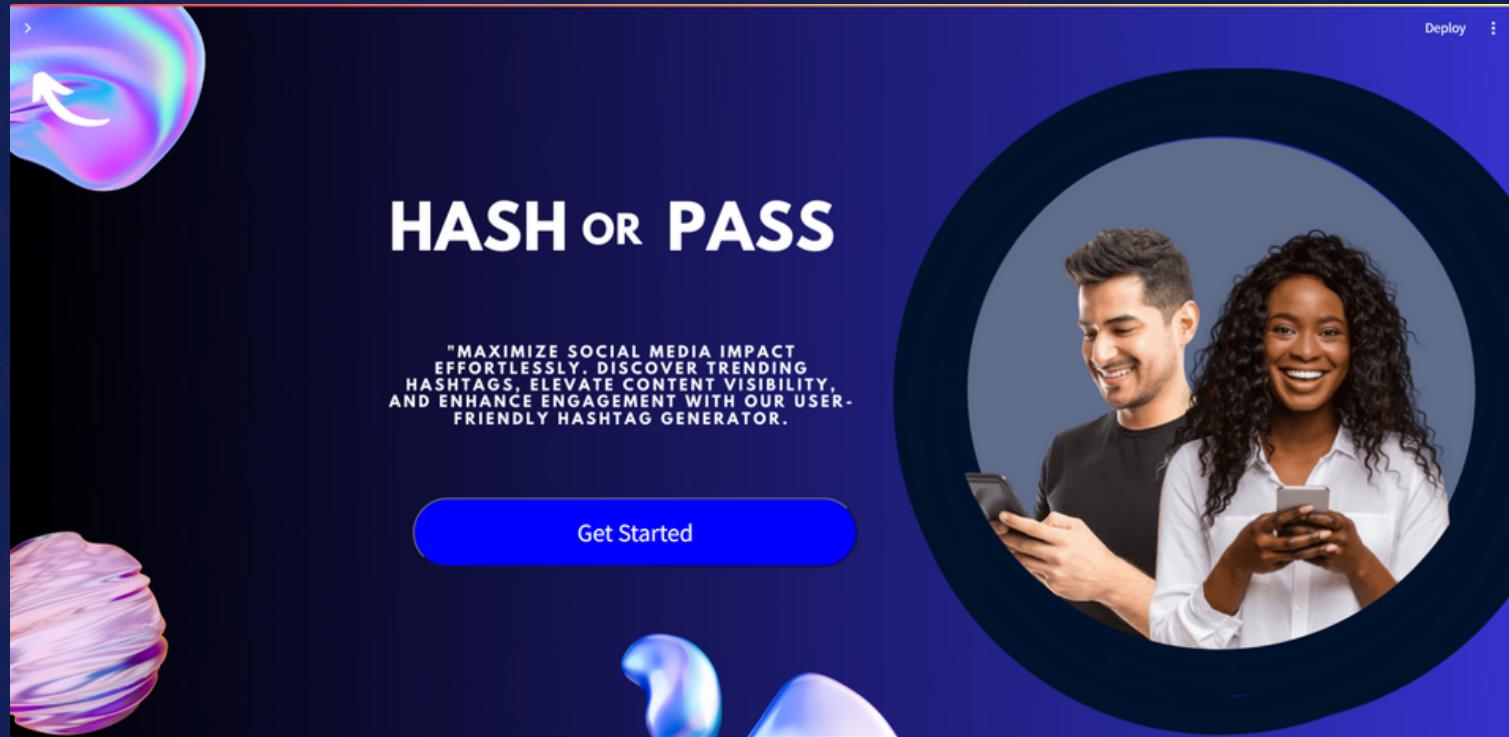
Approch

- **KEYWORD EXTRACTING TOOL :** EXTRACTS KEYWORDS FROM THE TEXT
- **HASHTAG SCRAPING TOOL:** USING API, THIS TOOL GETS THE TOP TRENDING HASHTAGS IN REAL-TIME
- **HASHTAG COMPARISON TOOL:** THIS TOOL COMPARES THE TOP HASHTAGS GENERATED
- **HASHTAG GENERATING AGENT:** THIS AGENT COMBINES THE KEYWORD EXTRACTING TOOL, HASHTAG SCRAPING TOOL AND HASHTAG COMPARISON TOOL AND USES THEM TO GENERATE RELEVANT HASHTAGS
- **SCRIPT WRITING AGENT:** THIS AGENT WORKS IN SYNC WITH CURRENT EVENT SCRAPER TOOLS AND GENERATES SCRIPTS

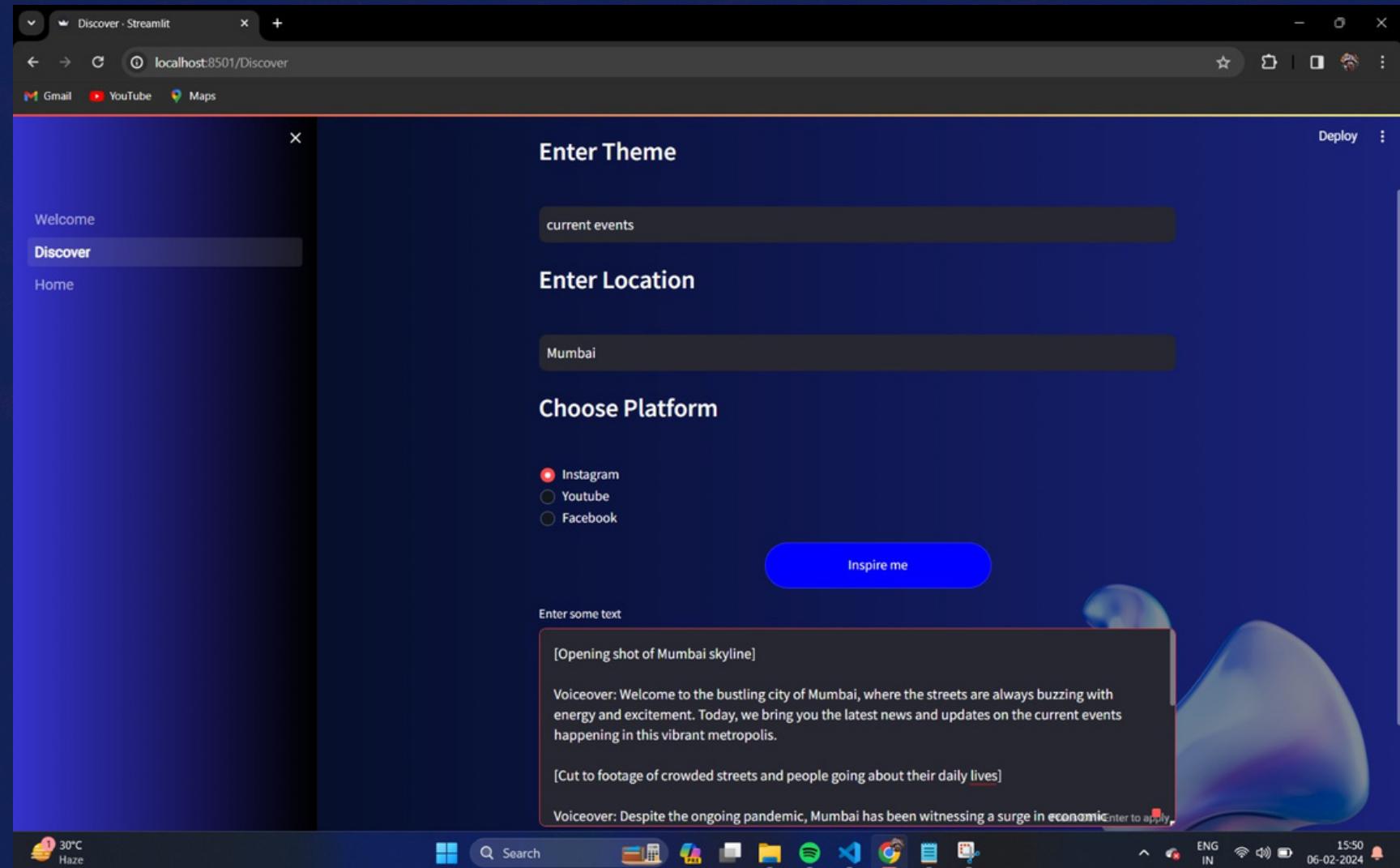
MODELS AND ALGOS USED

- GPT 3.5 TURBO
- GEMINI PRO VISION
- VIDEO CAPTIONING MODEL FROM HUGGING FACE

User Interface



User Interface



Conclusion

THE HASHTAG GENERATOR STREAMLINES CONTENT CREATION BY GENERATING RELEVANT HASHTAGS, ENHANCING DISCOVERABILITY AND ENGAGEMENT. EMBRACE ITS POWER TO MAXIMIZE THE IMPACT OF YOUR SOCIAL MEDIA CAMPAIGNS.