I have developed an offline application called Write Mate, which leverages the power of the Llama 2 model to generate blog posts based on user input. The application allows users to specify the topic, word count, and the target audience (e.g., researchers, data scientists, or common people). By utilizing the Llama model, this tool provides an efficient solution for generating high-quality blog content with ease. It showcases how LLMs can be used to enhance productivity and creativity, making it easier for individuals and businesses to produce written content in a time-efficient manner.

This report outlines the development and functionality of the Write Mate application, focusing on the integration of the Llama-based model for generating text and providing a user-friendly interface.
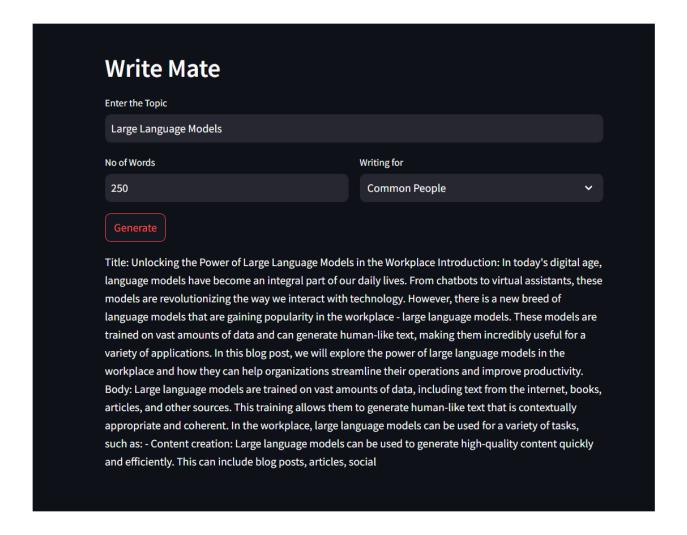
Llm: llama-2-7b-chat.ggmlv3.q8_0

LLm Link: https://huggingface.co/TheBloke/Llama-2-7B-Chat-GGML/tree/main

Google Drive link of Project: https://drive.google.com/drive/folders/1p5nIx3u-RadyKa6cB-A3BXK8uUs-nrcT?usp=drive_link

Write Mate enables users to generate blog content by providing the following parameters:

- **Topic**: Users enter the topic for the blog post (e.g., "Large Language Models").

- **Word Count**: The user specifies the desired length of the blog (e.g., 250 words).

- **Writing Style**: Users select who the blog is written for—either researchers, data scientists, or the general public.

Write Mate

Enter the Topic

Large Language Models

No of Words

250

Writing for

Common People

Generate

Title: Unlocking the Power of Large Language Models in the Workplace Introduction: In today's digital age, language models have become an integral part of our daily lives. From chatbots to virtual assistants, these models are revolutionizing the way we interact with technology. However, there is a new breed of language models that are gaining popularity in the workplace - large language models. These models are trained on vast amounts of data and can generate human-like text, making them incredibly useful for a variety of applications. In this blog post, we will explore the power of large language models in the workplace and how they can help organizations streamline their operations and improve productivity. Body: Large language models are trained on vast amounts of data, including text from the internet, books, articles, and other sources. This training allows them to generate human-like text that is contextually appropriate and coherent. In the workplace, large language models can be used for a variety of tasks, such as: - Content creation: Large language models can be used to generate high-quality content quickly and efficiently. This can include blog posts, articles, social

Write Mate is designed to democratize content creation, making it accessible to individuals without prior writing or technical expertise. By simply inputting a topic, word count, and preferred style, users can generate high-quality blogs that would otherwise take a significant amount of time and effort. This is particularly valuable in contexts where content is needed quickly, such as in digital marketing, educational content creation, or even personal blogging.

Code:

```python
import streamlit as st from langchain.prompts
import PromptTemplate from langchain.llms
import CTransformers


## Function To get response from LLAma 2 model
 def getLLamaresponse(input_text,no_words,blog_style):


    ### LLama2 model    llm=CTransformers(model='models/llama-2-7b-
chat.ggmlv3.q8_0.bin',                model_type='llama',
config={'max_new_tokens':256,
                'temperature':0.01})


    ## Prompt Template


    template="""
    Write a blog for {blog_style} job profile for a topic {input_text}
within {no_words} words.
        """
    prompt=PromptTemplate(input_variables=["blog_style","input_text",'no_words'],
template=template)


    ## Generate the ressponse from the LLama 2 model
response=llm(prompt.format(blog_style=blog_style,input_text=input_text,no_words=no_
words))
    print(response)
return response
```

```python
st.set_page_config(page_title="Write Mate",
                   layout='centered',
initial_sidebar_state='collapsed')


st.header("Write Mate")


input_text=st.text_input("Enter the Topic")


## creating to more columns for additonal 2 fields


col1,col2=st.columns([5,5])


with col1:
    no_words=st.text_input('No of Words') with
col2:
    blog_style=st.selectbox('Writing for',
                   ('Researchers','Data Scientist','Common People'),index=0)


submit=st.button("Generate")
## Final response if submit:
    st.write(getLLamaresponse(input_text,no_words,blog_style))
```