**Task:1**

For inference script in task 1 **[1]**

* Install transformers
* For better performance install Xformers

“We recommend the use of xFormers for both inference and training. In our tests, the optimizations performed in the attention blocks allow for both faster speed and reduced memory consumption.”**[2]**

**Task:2**

In this task I use README.md file of github repo provided in document to complete the task. Each and everything is well explain in this file.

**Task:3**

Create UI using streamlit of above 2 tasks. In this task streamlit documentation helps me a lot. In this firstly I individually create UI of both task and then combine it. Proper commenting on code in app1.py

**Task:4**

In this task I pushed all require file on Github include .py, results of task1 and results of task2.

**Additional Task:**

In this task a little help for ChatGpt for html and use template of my previous project , On topic/Off topic essay prediction,in creating FlaskAPI.

**Refernces:**

[1] <https://huggingface.co/facebook/opt-125m>

[2] https://huggingface.co/docs/diffusers/optimization/xformers