

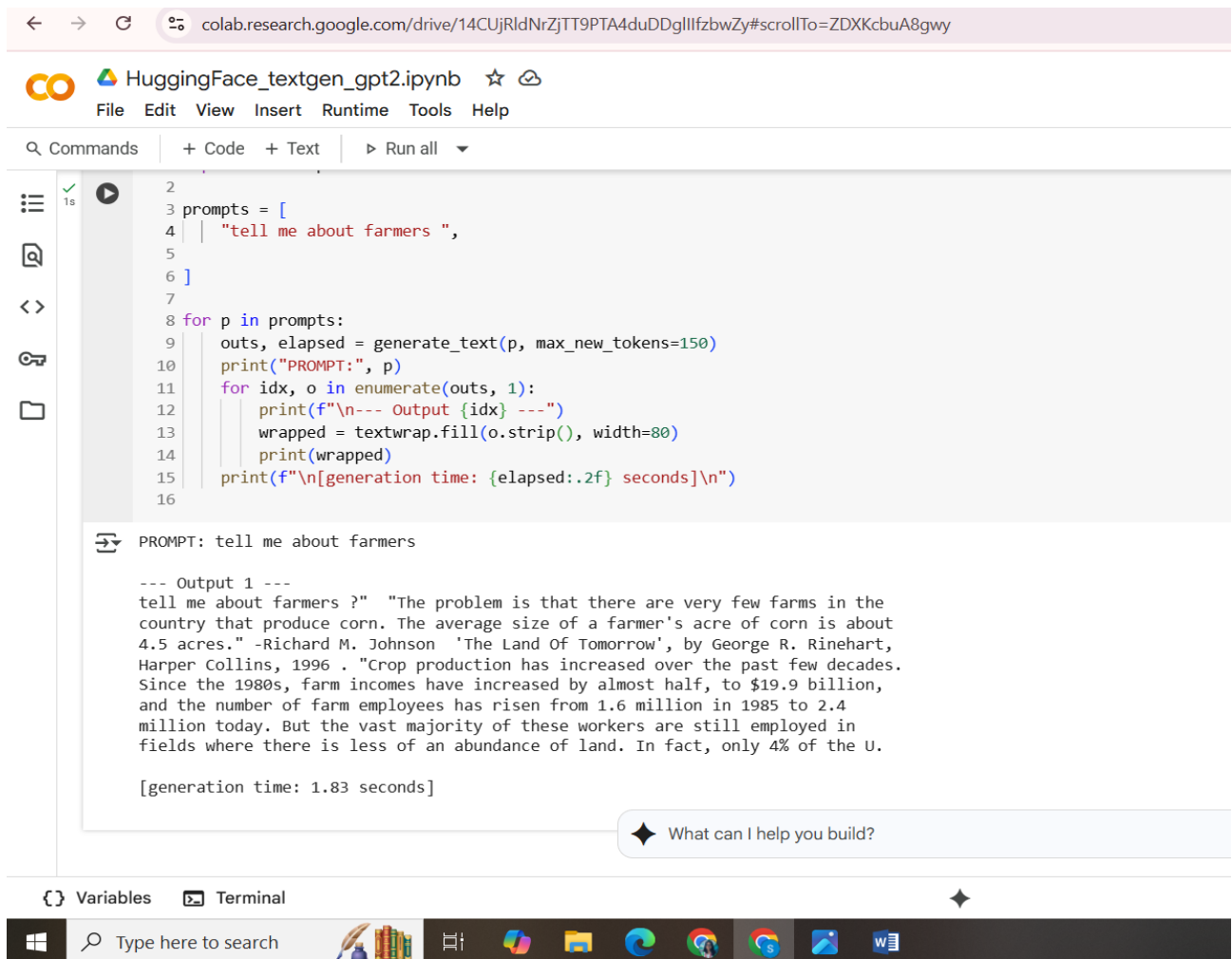
Assignment 3 (Hugging Face Model_GPT_2)

I have used google colab IDE (because python and jupyter notebook was giving me various errors and the storage issues).

This is the Google colab link:

<https://colab.research.google.com/drive/14CUjRldNrZjTT9PTA4duDDglllfzbwZy?usp=sharing>

Experiments on text generation:



```
2
3 prompts = [
4     "tell me about farmers ",
5
6 ]
7
8 for p in prompts:
9     outs, elapsed = generate_text(p, max_new_tokens=150)
10    print("PROMPT:", p)
11    for idx, o in enumerate(outs, 1):
12        print(f"\n--- Output {idx} ---")
13        wrapped = textwrap.fill(o.strip(), width=80)
14        print(wrapped)
15    print(f"\n[generation time: {elapsed:.2f} seconds]\n")
16
```

PROMPT: tell me about farmers

--- Output 1 ---
tell me about farmers ?" "The problem is that there are very few farms in the country that produce corn. The average size of a farmer's acre of corn is about 4.5 acres." -Richard M. Johnson 'The Land Of Tomorrow', by George R. Rinehart, Harper Collins, 1996 . "Crop production has increased over the past few decades. Since the 1980s, farm incomes have increased by almost half, to \$19.9 billion, and the number of farm employees has risen from 1.6 million in 1985 to 2.4 million today. But the vast majority of these workers are still employed in fields where there is less of an abundance of land. In fact, only 4% of the U.

[generation time: 1.83 seconds]

What can I help you build?

```
1 import textwrap
2
3 prompts = [
4     "tell me superscience",
5     "what is the meaning of life"
6 ]
7
8
9 for p in prompts:
10     outs, elapsed = generate_text(p, max_new_tokens=150)
11     print("PROMPT:", p)
12     for idx, o in enumerate(outs, 1):
13         print(f"\n--- Output {idx} ---")
14         wrapped = textwrap.fill(o.strip(), width=80)
15         print(wrapped)
16     print(f"\n[generation time: {elapsed:.2f} seconds]\n")
17
```

PROMPT: tell me superscience

--- Output 1 ---

tell me superscience. My first thought was that the idea of a superman in a suit, a superhero, who could walk around like a real person and walk like the Terminator, was something that I'd never thought about before. But I quickly realized that wasn't what the story was about. That it was a story about two superhumans who have just been transformed into different people. They're a lot like one another and we're in the same world, but we have to fight to save the world from this new world and to have a good time. It's a great movie. How did you approach the series? -I'm a big fan of the comic book series. I've read a few other comics about superheroes, and I like

[generation time: 1.54 seconds]

What can I help you build?



colab.research.google.com/drive/14CUjRldNrZjTT9PTA4duDDgllfzbwZy#scrollTo=ZDXKcbuA8gwy

HuggingFace_textgen_gpt2.ipynb

File Edit View Insert Runtime Tools Help

Commands Code Text Run all

16 print(f"\n[generation time: {elapsed:.2f} seconds]\n")

17

PROMPT: tell me superscience

--- Output 1 ---
tell me superscience. My first thought was that the idea of a superman in a suit, a superhero, who could walk around like a real person and walk like the Terminator, was something that I'd never thought about before. But I quickly realized that wasn't what the story was about. That it was a story about two superhumans who have just been transformed into different people. They're a lot like one another and we're in the same world, but we have to fight to save the world from this new world and to have a good time. It's a great movie. How did you approach the series? -I'm a big fan of the comic book series. I've read a few other comics about superheroes, and I like

[generation time: 1.54 seconds]

PROMPT: what is the meaning of life

--- Output 1 ---
what is the meaning of life in the world? "The basic question is that, if life is, in most cases, a question of value to the individual, and if there is a value in all things, then this value must be a particular thing, or a universal thing. It must not be, for example, something to be bought, but something of that kind, which is something useful to society as a whole. And that's why there are various things of which value is one. If we want to take a different view, we'll look at what is 'good' and what 'bad' in terms of what you get out of this. But we're not going to look for something that will be perfect. We're going back to some fundamental

[generation time: 1.52 seconds]

What can I help you build?

Variables Terminal

12:43 PM

Type here to search

28°C Light rain