CS 401R Section 1 Homework 2

Step 1:

I trained the same GPT2 model on the Lord of the Rings Script data for this assignment.

Step 2:

Hyper Parameters used for output generation:

gpt2.generate(sess, run\_name='lotr\_script', length=100, temperature=0.7, prefix="", nsamples=10, batch\_size=1)

Output Example 1:

Prefix: “The ring”

The ring

It's mine.

What does it take to make me want to hold it? , You ask me, my trick is no answer. You ask me Frodo. Why can I not answer your question.

So. It's a gift. , It is the gift of the elves. , I can see it in your eyes. You see what I did?

Output Example 2:

Prefix: “Let’s go to”

Let's go to war.

Well this is a thing unheard of. An elf will go underground, where a dwarf dare not. Oh. Oh, I'd...

We must cover the city gates.

Make way for the king.

Output Example 3:

Prefix: “What a lovely”

What a lovely girl she was, young Aphrodite. She would have remembered us ...

Aha! Enough talk!

I have business with the White Wizard of Gondor.

Output Example 4:

Prefix: “Today we must”

Today we must face the long dark of N'menor.

N'menor means 'dark place.' It also means a place of deep sleep.

It's the deep sleep of Rohan.

Yes, it's the only way.

Output Example 5:

Prefix: “My best friend”

My best friend is dead.

I can't take it anymore!

Leave me alone!

You can't take my son!

Leave me alone!

You can't take my son Sam, you must return to your home in Mordor.

To your country! To your father!

Output Example 6:

Prefix: “For breakfast I would like”

For breakfast I would like to savor the taste of fresh bread......but not the taste of Mr Frodo's bread. ...

Oh! I'm sorry. I'm so sorry.

You've had enough of slice bread!

Mmmm ,You can't have just any bread!

I know, Mr Frodo. I know. You can't just throw away what you have.

Output Example 7:

Prefix: “What is the plan today?”

What is the plan today?

I don't know, Mr. Frodo. Let's just have it one by one. Take it off us. We'll be fine.

Hurry!

Frodo! Take your places!

Gandalf! , Where's Gandalf? , GANDALF!

Frodo.

Gandalf!

Aaaahh!

What's happening?!

Output Example 8:

Prefix: “We need to hurry”

We need to hurry. ...

I'm not going to wait on you.

Yes you are. Come, Lord Aragorn. Come, Lord Elfwithbless your fealty.

May the grace of the Valarprotect you.

Farewell my brave Hobbits.

Output Example 9:

Prefix: “What do we do?”

What do we do?

We do what? Run!

What?

Leave him alone! What do we do now? We keep going.

Frodo!

Will you help me?

Output Example 10:

Prefix: “In other news”

In other news, my dear Smeagol, we have just passed into the realm of Gondor.

Minas Tirith. City of Kings.

It's the tree! Gandalf, Gandalf.

Yes the white tree of Gondor. The tree of the King. Lord Denethor however, is not the King.

Now listen carefully. Lord Denethor is Boromir's father. To give him news of his beloved son

I’ve only worked with GPT2 and not the other models, but after the fine tuning that it is very heavily skewed towards talking about Lord of the Rings for any prompt. I tried some that would lead more easily into Lord of the Rings and some that were more general and for all output the machine tried to connect it back to Lord of the Rings without fail. I generated output in batches of 10, and pretty much all of them had an issue, usually with punctuation, but there were a couple good snippets from each set.

Step 3:

I emailed my csv file with data and code from the quests starting with letter D to Trevor. I had a hard time scraping from the site with the dynamic content since I am new to web scraping, so I found a separate site that loaded statically and used that for my scraping.

In the code, the level 60 and 40 quests had the most similar web page structure, so that’s why I used those to populate the data set. The level 50 quests had more text in bold and italics so the same code wouldn’t find the different ones, so I just used the level 40 ones instead to make it easier since we only needed 100. It is pretty brute force (starting from the letter D page of the quests by level subpage), but I think I understand now how I would modify things in order to navigate from the landing page to these sub-pages after some practice with this assignment.