Lab 6

Conie O'Malley

Part 4: Take a Brief Look at Using Large Pre-trained Language Models

Deliverable 16: Prepare Your Environment

```
In [1]: import tensorflow as tf
        import torch
        import keras
        import nltk
        from nltk.corpus import movie_reviews
        from gensim.models import Word2Vec
        from transformers import pipeline
        nltk.download("movie_reviews")
```

```
[nltk_data] Downloading package movie_reviews to
[nltk_data]     /Users/coniecakes/nltk_data...
[nltk_data]   Package movie_reviews is already up-to-date!
```

```
Out[1]: True
```

```
In [2]: generator = pipeline('text-generation', model='gpt2')
```

```
Device set to use mps:0
```

Deliverable 17: Use the LLM to Generate Text

```
In [3]: generator.tokenizer.pad_token_id = generator.model.config.eos_token_id

        text = generator(
            "Once upon a time",
            max_new_tokens=100,
            num_return_sequences=5
        )

        print(text)
```

```
Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.
```

[{'generated_text': 'Once upon a time, my mother took comfort on the fact I had a brother. And I felt that I could make it happen. Now she has decided to take her revenge on herself… The last thing the boys want to do is show me their real identity and they want to keep me in detention forever….." (Mother \'s Confessions of a Man), in The Unbreakable Bond 3.12\n\nIn our lives we become more and more familiar with our physical and emotional needs. We have a body that grows'}, {'generated_text': "Once upon a time, if they ever thought of the problem themselves, they would realize how wrong they were and come to such a compromise, and not have to try and explain to others that they simply thought something wrong when they thought something right. They won't realize that the two other variables are true when they consider an action that would be a mistake.\n\nTo put it another way, if you think about what a person is going to do in a situation, you will never think of that person as being selfish"}, {'generated_text': 'Once upon a time, as a result of the merger, the merger has been the dominant force." For "over 2,000 years", the word "interplay" would refer to those who were associated with it. It is not a coincidence that there is no overlap between those who participated in the merger and the present "socially conscious leaders of the day". Furthermore, the very word "socially conscious" has now become synonymous with "centralised control. This includes state and corporate policy, economic policy'}, {'generated_text': "Once upon a time, I was at all of those things and wanted something to come out of my mouth, but this isn't where I'm at now. This is where I've grown so far. I'm not a bad fighter.\n\nRonda Rousey's career record includes one win over Andre Agassi before and one win over Jessica Andrade before she joined The Ultimate Fighter, as well as being the first woman to ever fight for an overall title under the UFC's banner.\n\nAquita"}, {'generated_text': "Once upon a time, one might claim that science was merely a game, in which one had to beat a computer or be in a real-world situation. But it turns out that many people do know that mathematics wasn't just a physical science—it wasn't just a game. It's a powerful tool for exploring complex and important issues. And in fact, the whole game seems to have many advantages over traditional math. First of all, there is a common ground among academic, scientific, and cultural disciplines. Second"}]