CS-C1000 - Introduction to Artificial Intelligence, 02.03.2021-09.04.2021

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State	Finished
Completed on	Saturday, 27 March 2021, 6:31 PM
Time taken	38 mins 12 secs
Grade	**10.00** out of 10.00 (**100**%)

Information

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These are the questions related to **Computer Exercise B** (Text generation using GPT-2) on the course.

- The exercise itself is to be done by logging into https://jupyter.cs.aalto.fi.
- Follow the instructions given during the exercise session (or look at the instructions in the **session slides**).
- Once you are in the code environment, follow/read the descriptions and run the code.
- Finally, answer questions here.

Question **1**

Flag question Mark 1.00 out of 1.00 Correct

What data was the GPT-2 text generation model trained on?

Select one:

a. 8 million children's books
b. 8 million web pages ✓
c. 8 million recordings of human speach

Your answer is correct.

GPT-2 was trained on text taken from web pages.

The correct answer is: 8 million web pages

Question **2**

Flag question Mark 1.00 out of 1.00 Correct

Task 1: Did you managed to generate unconditional samples of text?

Was the text coherent?

Select one:

a. Very coherent: it reads as if written by a human. ✓
b. I wasn't able to generate text (**if you are considering this option, please get in touch with the TAs for help**)
c. Not at all coherent: the text makes no sense, or is clearly fake.
d. Somewhat coherent: it mostly makes sense, but some parts are clearly computer generated.

Your answer is correct.

The correct answers are: Very coherent: it reads as if written by a human., Somewhat coherent: it mostly makes sense, but some parts are clearly computer generated., Not at all coherent: the text makes no sense, or is clearly fake.

Question **3**

Flag question Mark 2.00 out of 2.00 Correct

Task 2: Text completion.

Was the generated text sample a sensible continuation of the input text?

Select one:

a. I didn't manage to generate the text completion
b. No, the sample text was off-topic or completely incoherent.
c. Yes, the text followed on perfectly.
d. Somewhat: some of the subject matter was related, but some of the text was incoherent or off topic ✓

Your answer is correct.

The correct answers are: Yes, the text followed on perfectly., Somewhat: some of the subject matter was related, but some of the text was incoherent or off topic, No, the sample text was off-topic or completely incoherent.

Question **4**

Flag question Mark 2.00 out of 2.00 Correct

Task 3: Generating multiple samples.

Did the generated text vary between samples?

Select one:

a. Yes, each sample was unique ✓
b. I didn't manage to generate multiple samples
c. Somewhat, the samples were different but shared some features
d. No, the exact same text was generated multiple times

Your answer is correct.

The correct answers are: Yes, each sample was unique., Somewhat, the samples were different but shared some features

Question **5**

Flag question Mark 2.00 out of 2.00 Correct

Task 4: Controlling the text length.

What do you observe about the run-time of the text generation, with respect to the length of the sample.

Select one:

a. Longer samples take longer to generate. ✓
b. The time taken to generate the sample is independent of sample length.
c. I was not able to generate samples of varying duration

Your answer is correct.

The correct answer is: Longer samples take longer to generate.

Question **6**

Flag question Mark 2.00 out of 2.00 Correct

Task 5: Modifying the model "temperature"

How do you think the "temperature" parameter affects the model output?

Select one:

a. Increasing the temperature increases the randomness and diversity of the generated samples ✓
b. Increasing the temperature increases the speed of the text generation algorithm
c. Increasing the temperature decreases the randomness and diversity of the generated samples

Your answer is correct.

The correct answer is: Increasing the temperature increases the randomness and diversity of the generated samples

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