

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

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

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Started on	Saturday, 27 March 2021, 5:52 PM
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

Flag question

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.

## Quiz navigation

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	✓	✓	✓	✓	✓	✓

Show one page at a time

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### 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 speech

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

Finish review

← Exercise 3 (video)

Exercise 4 (slides) →



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