# CS-C1000 – Introduction to Artificial Intelligence Computer Assignment B

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# **Computer Exercise B:** Fake Text Generation

#### Artificial intelligence (AI)

New AI fake text generator may be too dangerous to release, say creators

The Elon Musk-backed nonprofit company OpenAI declines to release research publicly for fear of misuse





▲ The All wrote a new passage of fiction set in China after being fed the opening line of Nineteen Eighty-Four by George Growll (pictured). Photograph: Mondadori/Getty Images

The creators of a revolutionary AI system that can write news stories and works of fiction - dubbed "deepfakes for text" - have taken the unusual step of not releasing their research publicly, for fear of potential misuse.

OpenAI, an nonprofit research company backed by Elon Musk, Reid Hoffman, Sam Altman, and others, says its new AI model, called GPT2 is so good and the risk of malicious use so high that it is breaking from its normal company.

SYSTEM PROMPT
(HUMAN-WRITTEN)

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SYSTEM PROMPT In a shocking finding, scientist discovered a herd of unicorns living in a remote, previously unexplored valley, in the Andes Mountains. Even more surprising to the researchers was the fact that the unicorns spoke perfect English.

MODEL COMPLETION The scientist named the population, after their distinctive horn, Ovid's Unicorn. These four-horned, silver-white unicorns were previously unknown to science.

Now, after almost two centuries, the mystery of what sparked this odd phenomenon is finally solved.

Dr. Jorge Pérez, an evolutionary biologist from the University of La Paz, and several companions, were exploring the Andes Mountains when they found a small valley, with no other animals

or humans. Pérez noticed that the valley had what appeared to be a natural fountain, surrounded by two peaks of rock and silver snow.

Pérez and the others then ventured further into the valley. "By

Pérez and the others then ventured further into the valley. "By the time we reached the top of one peak, the water looked blue, with some crystals on top," said Pérez.

Pérez and his friends were astonished to see the unicorn herd. These creatures could be seen from the air without having to move too much to see them — they were so close they could touch their horns.

# Log into JupyterHub (a quick reminder)

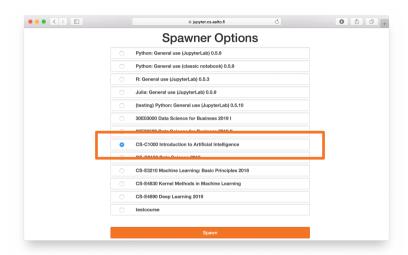
Log in to:

https://jupyter.cs.aalto.fi

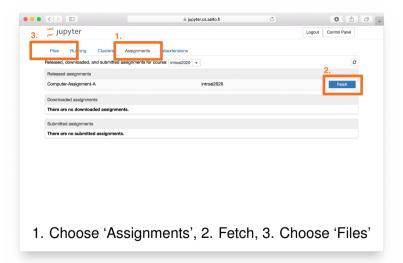


Using your Aalto account.

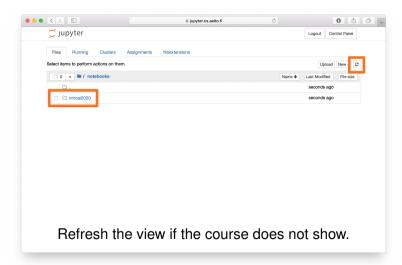
#### Choose the course



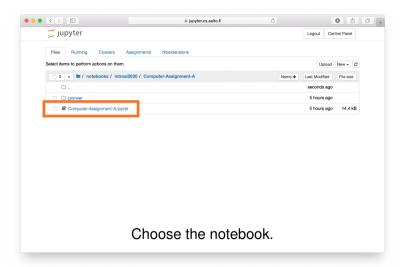
### Fetch the exercise (B this time, not A!)



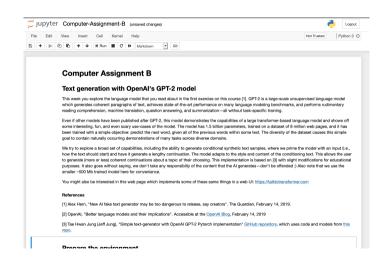
#### Find the notebook



# Fire it up (again, B this time)



### Ready to run (a cell at a time)



- Generate some unconditional fake text.
- Auto-complete some text.
- Generate multiple novel text samples.
- Generate samples of varying length.
- Modify the model parameters.

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# How to get points?

To get the points for this week's exercise, answer the questions in MyCourses related to this Computer Exercise B.