Generative AI and GPT

Generative AI (GAI) is a type of artificial intelligence that can create new content or data based on existing examples. A GAI can thus write text, create images, compose music or generate code by learning from large amounts of previous data.

GPT stands for *Generative Pre-trained Transformer* and is an advanced language model that analyzes large amounts of information and uses it to write unique coherent texts. GPT is a model that has learned to predict which word will come after another word in a sentence, and is thus not a search function. Generative text models such as GPT are now built into a variety of tools and services. One of the most well-known generative AI tools is ChatGPT, which is a text-based chatbot that can answer questions, have conversations, and write different types of texts. ChatGPT has been trained on millions of texts from the internet and can therefore generate new texts that sound natural and meaningful.

Today, some GAI tools are connected to the internet while others are not. This means that some have access to new information, while others only contain the information corresponding to the data that the model has been trained on. Be observant of this as it will be able to affect the responses generated.

Learning process and examination
The process itself, where you work your way to and formulate answers, is a central part of learning. Practicing such skills is in many ways just as important as the answer itself. Always talk to your teachers and classmates about the learning outcomes of courses and how AI-based tools fit into your processes and examinations.

Examination in higher education is a control function. Your examiner has a legal obligation to be able to establish that you know what is expected on the course. You can think of your examiner as someone who will guarantee, to a future employer, that you have skills equivalent to what your grades show. The examination is also a support for you as a student as you can have the opportunity to see what you have learned and what you have not yet understood.

Sometimes GPT writes texts that are not accurate or relevant. AI doesn't lie intentionally but the pattern of inserting inaccuracies is difficult to predict. As a student, you are always responsible for what you submit for examination, regardless of which tools you have used. It is therefore important to check, for example, that AI-generated text corresponds to reality and that you can stand for what it expresses.

You need to develop your own understanding and knowledge in the subject you are studying. AI can automate and relieve you, but your learning process needs to be your own.

NB! Before using GAI for study assignments to be submitted, be sure to find out which ways are considered OK in the particular course you are studying. It can vary from course to course and from examination to examination. You may also need to specify the ways in which you used AI.

Quick reference guide to Microsoft Copilot and other generative AI

As a student, you have access to Copilot on the web via your M365 account. To use many other GAI services, such as ChatGPT, you need to create an account yourself because you don't get anything through the university. For ChatGPT, you need an account with OpenAI. Many times it is the case that what is entered into these services will be saved and you have no possibility of getting anything deleted. Therefore, do not post sensitive information about yourself or others. Currently, the version ChatGPT 3.5 is free, but since this is a commercial tool, there are no guarantees that ChatGPT will continue to be freely available.

Think about what information you enter

Please note that it is not allowed to share personal data, sensitive or confidential material in this type of cloud service.

Copilot

Copilot is an AI chatbot that can be used for a variety of tasks, such as generating text and images, analyzing data, processing text, programming, and more.

The logged-in version has greater functionality and, above all, a higher level of protection than the trial version that you have access to in logged out mode. Among other things, the Chat history is not saved in logged in mode, but is deleted after the session is over, and the information is never used to train the model. Data is also sent encrypted to Microsoft's servers and all data is handled within Europe. You'll see that you're in logged in mode when there's a green shield next to your username.

Copilot basically uses the same generative language model as ChatGPT 4 and has corresponding features:

- Copilot is connected to the Internet and can provide references to web pages and perform tasks based on the content of web pages, etc. The limitations to old training data, such as in the free version of ChatGPT, are thus not here. Note that it is Bing's search engine that is associated with Copliot.

- It is possible to generate images, in the background it is then OpenAI's generative image service Dall-E that is used.

- It is also possible to upload images and files to allow the service to describe, answer questions or perform tasks based on the content of the uploaded image or file.

How to get started with Copilot

1. Go to copilot.microsoft.com
2. Click "Sign in"
3. Choose "Sign in with a work or school account"
4. Log in with your LNU-login (ab111cd@student.lnu.se + password)

Things to Consider When Using Generative AI and Copilot

- Even though Copilot is connected to the Internet, it's important to remember that generative AI responds based on probabilities rather than what is necessarily accurate. Additionally, AI can exclude important or even crucial information in its generated responses.

- By asking Copilot to process known information in an uploaded file or a shared link, you can control what information Copliot uses. See below how this can be done in the Edge browser.

- You need to have a clear understanding of how and when AI can be used in relation to your studies, especially in examinations.

Better functionality with the Edge browser

In the Microsoft Edge browser, you can quickly access AI support without leaving the browser. It also gives you convenient control over the information that Copliot processes. Here you can ask for summaries, explanations, and more for the information you have open in the current tab in Microsoft Edge.

To access Copilot in logged in mode via the side panel, log in by clicking on the small profile in the upper left corner of the browser. You log in your LNU login (ab111cd@student.lnu.se + password)

To use Copilot in the side panel:

1. Open Microsoft Edge and click the Copilot icon in the top right corner to activate the side panel.

2. Type your question or task into the Copilot box. You can ask for summaries, explanations, and more for the information you have open in the current tab in Microsoft Edge. This way, you control what information Copilot uses. *NB! The first time you ask a question, you'll need to agree to allow Copilot to access the information you have open in the current tab in Microsoft Edge. Copilot will then be allowed to analyze the information that you have open. Copilot only asks for permission to analyze the information the first time you use the service in Edge.*

3. You can open PDF files in Edge by right-clicking on a file in File Explorer or Finder and selecting "Open with Edge". With Copilot in the side panel, you can work with the content of the selected PDF file

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Some tips on how to use GAI

Please note that the boundaries of permitted and prohibited use are not always easy to draw. Be observant of whether you notice that you let the AI do the work so that your learning does not suffer. Before using GAI for study assignments to be submitted, be sure to find out which ways are considered OK in the particular course you are studying.

Category	Description	Example
Sounding board	AI generates alternative ways to express an idea.	Write questions in GAI and use *the Regenerate response* function to look at and compare alternative answers.
Opponents	AI acts as an adversary to develop an argument.	Use GAI to prepare for discussions. Ask for counter-arguments or ask for different perspectives on an issue.
Guide on the side	AI acts as a guide	Ask GAI for advice on how to learn a specific concept. For example, GAI can be used to support language learning.
Personal tutor	AI guides and provides instant feedback on progress.	Ask GAI for personalized feedback based on information you provide (e.g., test scores).
Troubleshooter	AI assists during a learning process	Ask GAI for correction help for the texts' language accuracy, program code, etc.
Explorer	AI provides tools to explore and question text and data	Provide basic information, such as a text and type various questions in GAI to find out more about the content.
Fellow student	AI helps to reflect on learning materials.	Explain your current level of understanding of GAI and ask for ways to help with the study of a particular material. GAI can also be used to e.g. set up study schedules with readings, lectures and other study activities or help prepare for a job interview.

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Some tips for writing better promter

By following these tips, you can improve your results when using GAI and get better answers to your questions.

Be clear and specific: The clearer you are about your question, the more likely you are to get a relevant answer. Provide the chatbot with information to use as a starting point. You can ask the chatbot to take on a specific role, such as a celebrity or a type of expert. GAI understands most common words and phrases, but it may have difficulty understanding slang or abbreviations.

Be clear about the desired format: If you want answers in a specific format, such as a bulleted list, a table, a summary, or a longer description, specify this in your prompt to get the desired result. You can also specify whether you want help with a specific type of text.

Be patient: Sometimes it can take some time to generate a response. Be patient and wait a while for it to generate the best response.

Try different wording: If you don't get the answer you're looking for, try phrasing your question in a different way. Sometimes a different formulation can give better results.

Give constructive feedback. To improve the responses, you can describe what is missing or needs to be improved in order for the AI to better understand your preferences.