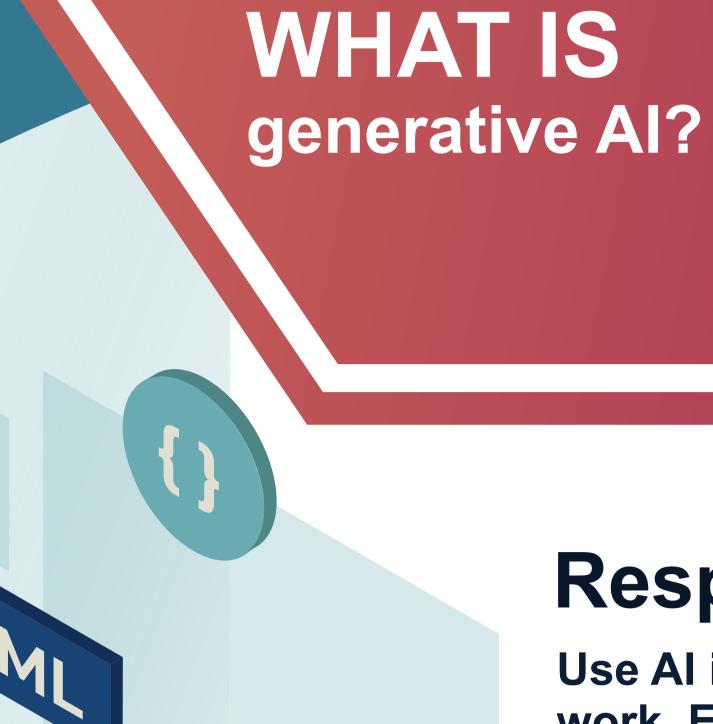
Information Security and Artificial Intelligence (AI)

The use of Al systems such as ChatGPT or Copilot offers opportunities, but also involves risks. On the one hand, productivity can be increased and problem-solving can become easier. On the other hand, there is a risk of data leaks, privacy violations, or manipulation of Al-generated results. The goal when using Al should therefore be to maximise the benefits while minimising the risks. You can find the security guidelines for the use of Al services in the following flyer.

It is the responsibility of the users to use external Al services in a purposeful and responsible manner. It is not permitted to share confidential or strictly confidential data on these platforms. This includes the prohibition of using particularly sensitive or otherwise personal data.



Artificial intelligence (AI) refers to the ability of machines to perform tasks that typically require human intelligence, such as learning, problem-solving, and decision-making. Generative Al can create new content, such as text, images, or music. These systems use machine learning and neural networks and are trained on large amounts of data. They can also be specialized for specific tasks, such as translations.

Responsible Use of Al

Use Al in practice to learn how best to apply the technology for your work. Experiment with different Al tools and use Al to automate routine tasks. Here are some things you should and should not do:

Do's



- Write meaningful prompts
- Critically review the Al results
- **Turn off the history** function (if possible)
- **Absolutely consider** copyright when using Al-generated content

Don'ts



- **Don't share confidential** information with Al systems
- **Don't share personal** data
- Don't blindly rely on Al results
- Don't ignore the ETH guidelines and data protection regulations

Additional information on Do's:

Write meaningful prompts

When creating prompts for conversational Al like ChatGPT, follow these recommendations to ensure the best possible results and the security of your and ETH information:

Critically review the Al results

Read and evaluate the output of generative AI to assess the quality, accuracy, and ethical implications of the generated content before reusing it.

Turn off the history function (if possible)

Certain AI solutions offer options to restrict the storage and use of the provided data. There may be various control and adjustment levels, use them to prevent your data from being used uncontrollably on the web.

Absolutely consider copyright when using AIgenerated content

The ability of AI to generate original content raises complex copyright issues. ETH has developed clear guidelines for the use and dissemination of Algenerated content, especially in the area of teaching and learning.

You can find them here: https://ethz.ch/en/die-eth-zuerich/ lehre/ai-in-education.html

use keywords; pay attention to correct spelling; define the Al's role and the desired output. 2. Do not use personal,

1. Be clear, provide context;

- confidential or proprietary information.
- 3. Use respectful language. 4. Promote diversity and
- 5. Regularly evaluate and refine your prompts.

inclusion.

More information on prompting: https://ethz.sharepoint.com/ sites/ArtificialIntelligence

Caution: Al can sometimes generate false information, the socalled "hallucinations". This happens when the model creates content for which it

has no training data. These false information can appear very convincing. Therefore, you should always verify the links and sources provided by the Al.

information. It distinguishes between public, internal, confidential, and highly confidential data. Al systems must be developed accordingly to this classification and the data must be used appropriately to ensure the right level of protection.

ETH has introduced a system for classifying

CONFIDENTIAL INTERNAL (DEFAULT) **PUBLIC**

STRICTLY CONFIDENTIAL

Additional information on Don'ts

Don't share (strictly) confidential information with Al systems

In addition to the benefits of artificial intelligence, please also consider its potential risks

pose several dangers for ETH: 1. Reputational damage

The incorrect use of AI can

- 2. Ethical concerns 3. Financial losses
- Examples of confidential and
- strictly confidential data: Research data & research
- projects Strategic & financial
- documents Contracts & agreements
- Confidential information & protected intellectual property
- IT & security-sensitive data Crisis management &
- emergency documents Corporate & organizational

projects

personal data "Personal data" means any

Don't share

identified or identifiable natural person ("data subject").

information relating to an

directly or indirectly recognized. This can occur through information such as a name, identification number, location data, an online identifier, or specific characteristics that reveal physical, genetic, psychological, economic, cultural, or social attributes of that person.

An identifiable natural person

is someone who can be

 Data concerning religious, ideological, political, or

data" are information about:

"Particularly sensitive personal

- trade union views or activities Data concerning health, intimate life, or racial or ethnic origin
- Genetic data Biometric data that
- uniquely identifies a natural person
- Data concerning administrative or criminal prosecutions or sanctions
- Data concerning measures of social assistance

rely on Al results Be thorough in checking Al-

Don't blindly

generated texts.

create content, watch out for: 1. Lack of coherence: Al-generated texts can lack

When you've asked AI to

- logical flow, leading to confusing passages. 2. Semantic errors: Al models can occasionally
- misinterpret context, resulting in errors, inaccuracies, or implausible statements. 3. Repetitions: Al-generated content can
- exhibit repeated patterns or redundant information that impair the quality and uniqueness of the text.

Don't ignore the

ethical guidelines and data protection regulations Al systems at ETH must be

accordance with the DSG. which in-cludes principles such as transparency, purpose limitation, data minimization, and the right to in-formation and deletion.

developed and operated in

ETH has developed a specific strategy for the use of AI in teaching that takes into account the following aspects: 1. Promoting critical thinking

- 2. Ethical use
- 3. Adaptation of teaching methods
- 4. Preparation for the job market

For questions about

information security

Contact the Information Security Officer (ISO) responsible for your department or the CISO.

Contact persons list: https://ethz.ch/staffnet/en/ service/information-security/ contacts.html



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