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When do LLMs process personal data?

On 15 July 2024, the Hamburg Commissioner for Data protection and freedom of information (the HCDP) released a discussion paper on Large Language Models (LLMs) and Personal Data (the Discussion Paper). The HCDP distinguishes between storage, training and use of a LLM and provide practical examples on when personal data protection should be ensured.

STORAGE OF PERSONAL DATA

The HCDP considers that a LLM, in view of the way it functions and CJEU case law, does not store personal data. The HCDP explains that LLMs do not reproduce words or full text, but fragment words into small pieces (tokens) and create relationships between those tokens. Accordingly, the HCDP is of the view that tokens do not constitute personal data and do not contain elements related to an identified or identifiable individual as per CJEU case law. Additionally, LLMs never fully reproduce input data provided: they generate new content based on the tokens and relationships established.

Based on those considerations, the HCDP states that the storage of LLMs models does not constitute a processing of personal data under GDPR. This means that data subjects cannot exercise their rights against LLMs, but should exercise them against the input or output, in particular if a LLM is integrated into another Al system.

TRAINING AND USE OF LLM

The training of a LLM on personal data however seems to constitute processing under GDPR as per the HCDP. In this case, GDPR will apply to the training. But the HCDP provides an interesting consideration for companies integrating third parties LLMs into an AI system: those users of the LLM will not be liable for a breach of the LLM during the training phase. Only the developers of the LLM are responsible for GDPR breaches occurring during the training. The users will nonetheless have to clarify responsibilities with the developers/providers, make sure data subjects can exercise their rights towards input and output and take protection measures against attacks and unlawful extraction.

The HCDP also provides some requirements for fine tuning and simple use of third parties LLMs. With respect to fine tuning of a LLM, the entity fine tuning the LLM should ensure no or as little personal data as possible is used. If personal data are used, fine tuning requires a legal basis and data subjects should be able to exercise their rights towards the entity fine tuning the model.

For the use of a third party LLM, beyond ensuring that data subjects can exercise their rights regarding the input and output, the users should implement the safeguards against extraction and attacks provided by the developer/provider and take their own additional measures.

CONCLUSION

The Discussion Paper seems to provide a pragmatic approach for companies using LLMs. It remains to be seen if this position will be followed by other data protection authorities or even courts in Europe.

The Discussion Paper is available here in English.

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