



Insights into AI technology & AI trends

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Daniel Sohn

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Daniel Sohn

Legal Counsel
Product and Go-to-Market

*Tech Lawyer since 20+ years,
who worked for U.S. and Germany start-ups
with a passion for SaaS, AI and Privacy topics*

<https://www.linkedin.com/in/dsohn/>

1. Using AI technology: *Most organizations sit on a treasure*



Treasure: *Your Data*

How do you get your data into the AI?

Fine-tuning

= further training of the LLM

-> changing the behaviour of the model or teach a new skill

RAG

= Retrieval-Augmented Generation

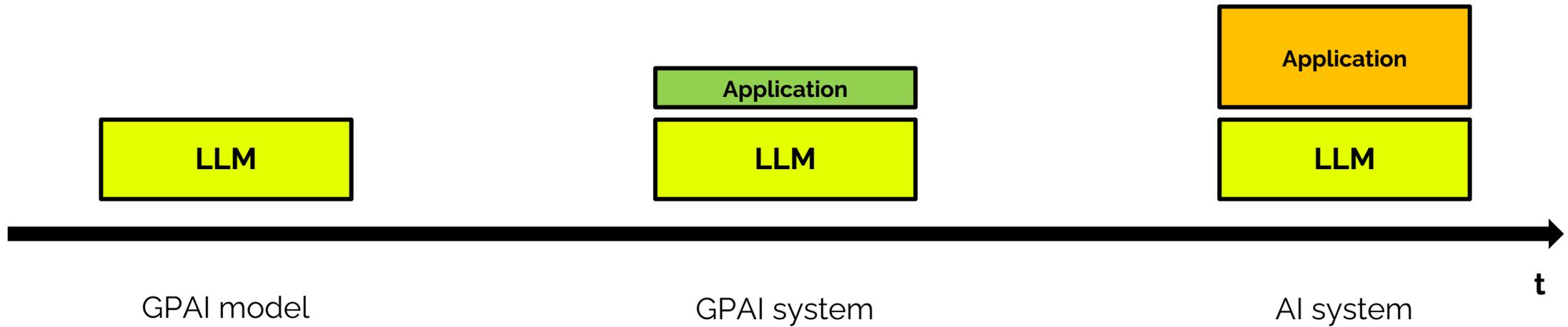
-> leverage existing data without moving it

Structured Data

Unstructured Data

2. How can an AI technology vendor help your organization to comply with the AI-Act?

What are you exactly purchasing?



On-prem

AI as a Service

Art. 3 (63/44b) general purpose AI model

'general-purpose AI model' means an AI model, including where such an AI model is trained with a large amount of data using self-supervision at scale, that displays significant generality and is capable of competently performing a wide range of distinct tasks regardless of the way the model is placed on the market and that can be integrated into a variety of downstream systems or applications, except AI models that are used for research, development or prototyping activities before they are placed on the market;

Art. 3 (66/44e): general purpose AI system

'general-purpose AI system' means an AI system which is based on a general-purpose AI model and which has the capability to serve a variety of purposes, both for direct use as well as for integration in other AI systems;

Art. 3 (1): AI system

'AI system' means a machine-based system that is designed to operate with varying levels of autonomy and that may exhibit adaptiveness after deployment, and that, for explicit or implicit objectives, infers, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments;

How can an AI technology vendor help your organization to comply with the AI-Act?

Downstream Information

*Article 53 (1) b
Obligations for providers of
general-purpose AI models*

Providers of general-purpose AI models shall:
(...) draw up, keep up-to-date and make
available information and documentation to
providers of AI systems who intend to integrate
the general-purpose AI model into their AI
systems

-> **Annex XII**

How?

Model card

Service description/Documentation

Contractual content

3. Current AI trends

AI trends

AI technology providers grow their tech stacks
(See picture)

Leverage your data in silos & leave it there
(RAG as game changer)

AI use cases drive the model selection
("verticalized" LLMs)

"Downsizing": Models get smaller but
are still powerful

Thank you!

Daniel Sohn

Legal, Product & Go-to-market

daniel.sohn@aleph-alpha.com

www.aleph-alpha.com

Aleph Alpha GmbH

Grenzhöfer Weg 36

69123 Heidelberg

Germany