

# Generative AI oder doch lieber selber denken” - what do you think?

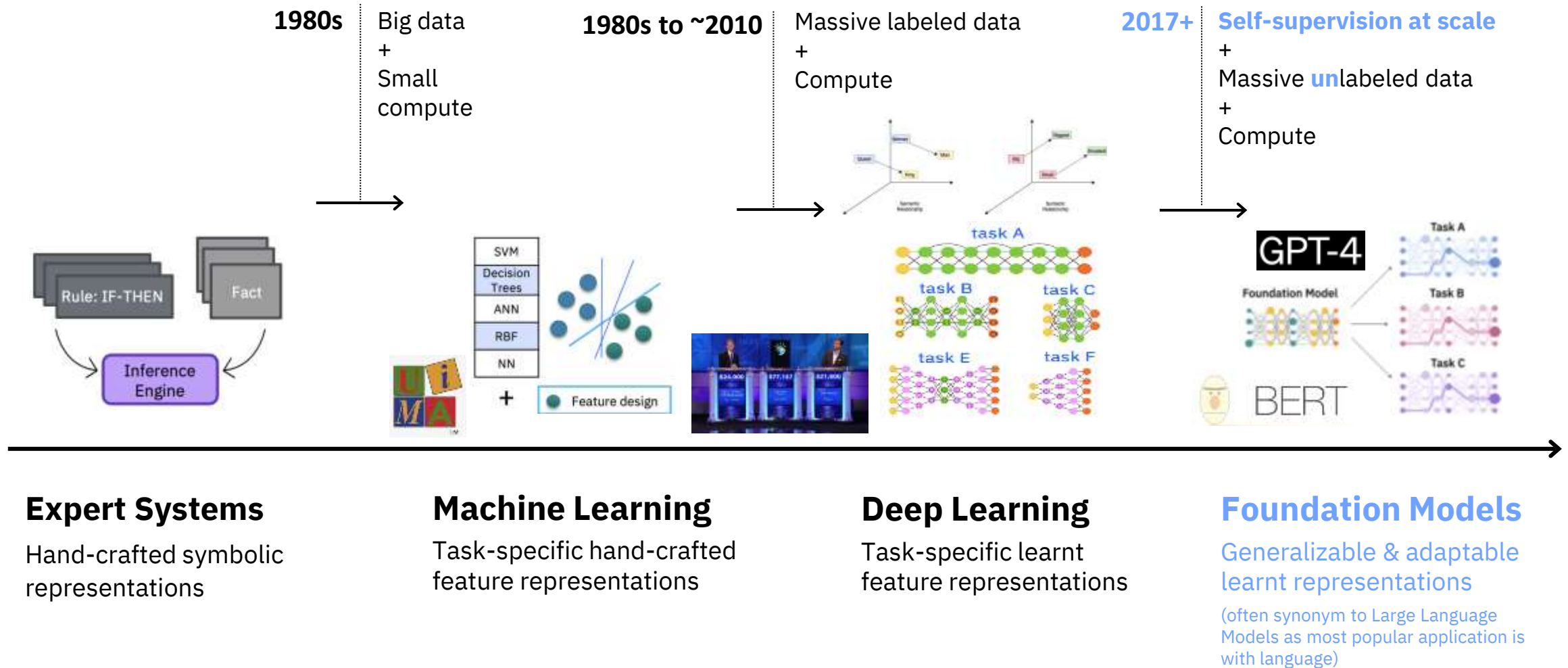
Thomas Jirku (IBM)  
Technical Sales  
thomas.jirku@at.ibm.com



prompt: an ibm machine that generates ideas in style of GREGORY CREWDSON



# A little history on AI



# Foundation Models are...



**Pre-trained** on unlabeled datasets of different modalities (e.g., language, time-series, tabular)

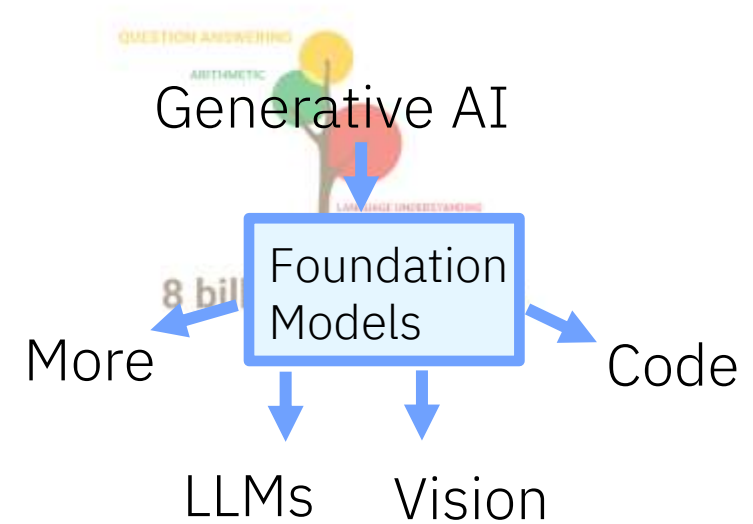


Leverage **self-supervised learning**



Learn **generalizable & adaptable data representations** which can be effectively used in **multiple downstream tasks** (e.g., text generation, machine translation, classification for languages)

*Note: while transformer architecture is most prevalent in foundation models, definition not restricted by model architecture*

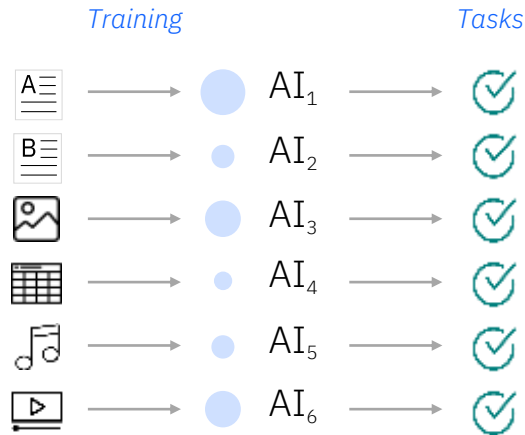


Inspired from Kate Soul's YouTube [VIDEO](#)



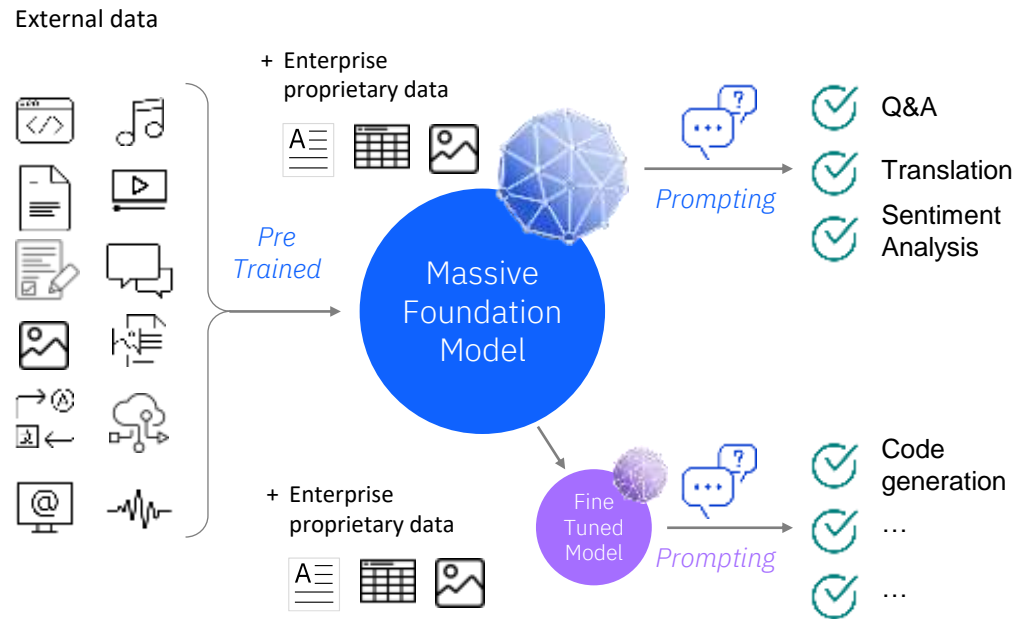
# Foundation models establish a new paradigm for AI capabilities

## Traditional AI models



- Individual siloed models
- Require task specific training
- Lots of human supervised training

## Foundation Models



- Massive multi-tasking model
- Adaptable with minimized training
- Pre-trained unsupervised learning

## Enhanced capabilities

- Summarization
- Conversational Knowledge
- Content Creation
- Code Co-Creation

## Key advantages

- Lower upfront costs through less labeling
- Faster deployment through fine tuning and inferencing
- Equal or better accuracy for multiple use cases
- Incremental revenue through better performance

up to **70% reduction**  
in certain NLP tasks

explainability

fairness

robustness

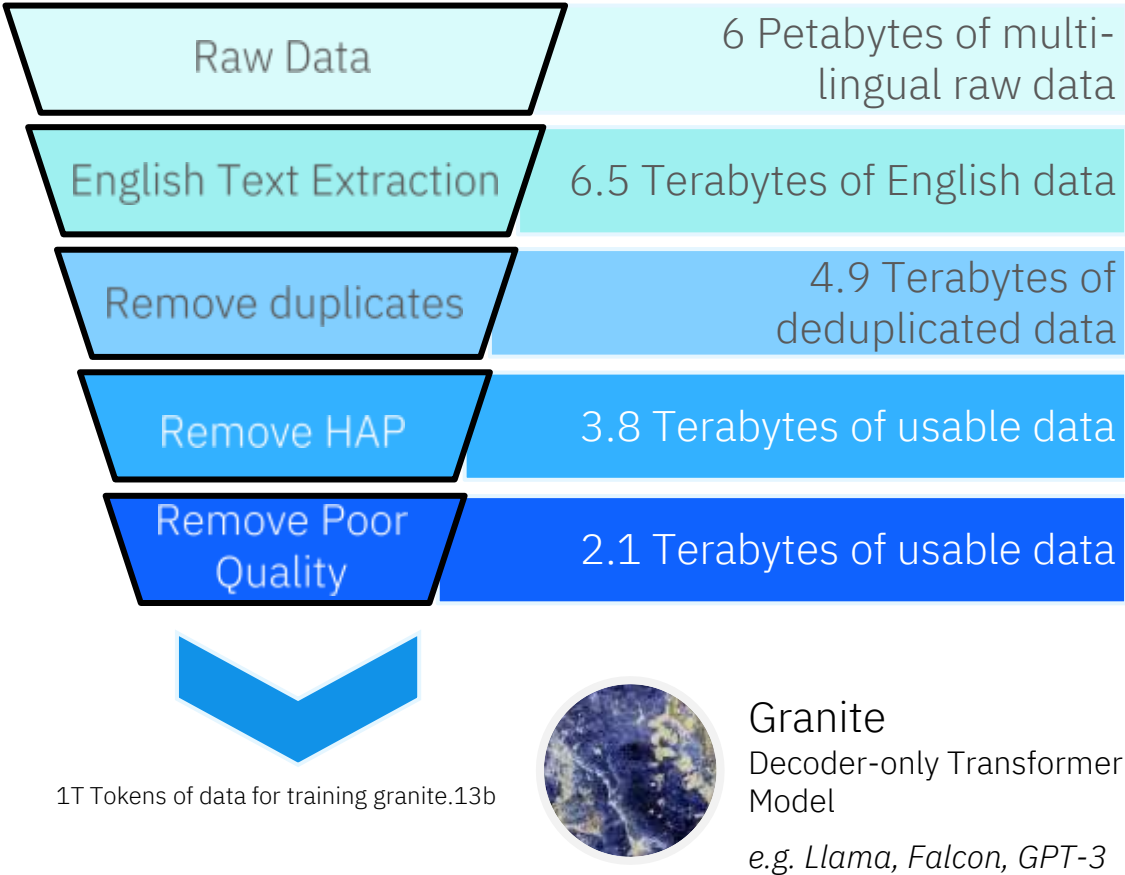


transparency

# Granite LLM's on watsonx.ai

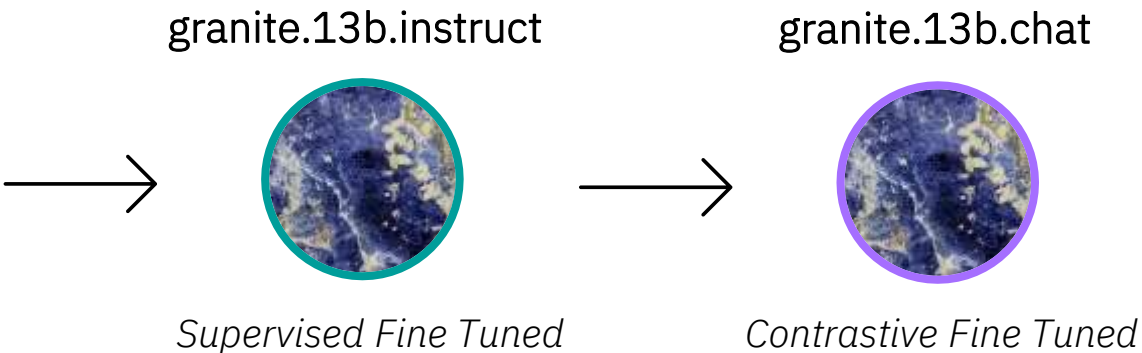
Trusted | IBM's approach to AI model development is grounded in core principles of trust and transparency.

What were the datasets and sources used?



What makes IBM models safe for enterprise use?

- Models were reviewed against IBM's extensive data governance practices, corresponding to data clearance and acquisition; document quality checks; pre-processing data pipelines, including tokenization, data de-duplication, etc.
- Granite models were trained on data scrutinized by IBM's own HAP detector – to detect and root out objectionable content, benchmarked against internal and public models
- IBM deploys regular, ongoing data protection safeguards, including monitoring for websites known for piracy or other offensive materials, and avoid those websites





# EU AI ACT will highly regulate critical AI models

European Commission has outlined AI regulations that lay down

- harmonized rules for market placing, go-live and use of AI
- prohibitions for “unacceptable risk”
- requirements for “high-risk”
- harmonized transparency rules for “limited risk”
- rules on monitoring, market surveillance and governance
- measure in support of innovation

Regulation applies to:

- providers placing systems/services in EU regardless of location
- Users of AI systems in EU
- Providers and users of AI where output of the system is used in the EU



## UNACCEPTABLE RISK

Prohibited AI systems

## HIGH RISK

AI systems with requirements for risk mgmt., governance, explainability, human oversight, etc.

## FOUNDATION MODELS\*

Similar obligations as high risk systems + additional reporting rgd. ecological impacts

## LIMITED RISK

AI systems with specific transparency obligations

## MINIMAL RISK



MINND





LinkedIn

Thank  
you!