

The DOs and DON'Ts for LLMs today Maximize the business value of LLMs with

these insights and strategies Generative artificial intelligence (AI) applications powered by

large language models (LLMs) have the potential to transform every industry. Staying up to speed with LLMs is challenging as the technology continues to evolve at lightning speed. Read on to discover best practices that will help you navigate

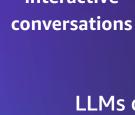
the LLM landscape with confidence.

LLMs are deep learning (DL) models that can carry out functions in a conversational manner. These include:

What are LLMs?

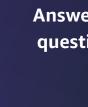
Trained on trillions of words across many natural-language tasks,





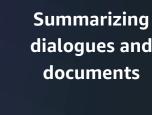


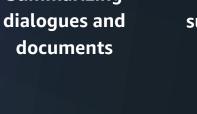
LLMs can be found powering generative AI applications across multiple industries, including creative writing for marketing, document summarization



Answering questions

for legal, and clinical trial simulations for healthcare.









advantage—and potentially increase the business value of your generative AI investments.

is fast-evolving. Understanding your LLM options can help you gain a competitive



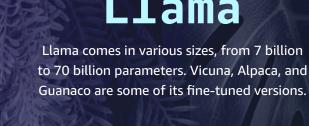
BERT was the first transformer-based



Pathways Language Model (PaLM) 2 has multilingual, reasoning, and coding capabilities. It comes in 4 sizes: Gecko, Otter, Bison, and Unicorn.

Generative pretrained

transformers demonstrate the ability to scale to hundreds of billions of parameters.





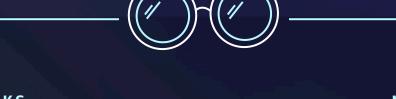
BLOOM is an alternative to GPT-3 and has been trained on 46 different languages and 13 programming languages.

TEXT GENERATION



Chinchilla

Chinchilla is 4x smaller than its predecessor Gopher and trained on 4x more data while using the same training budget.



Do choose the right LLM

for your use case

Selecting the right LLM for your use case can increase the accuracy of your outputs, improve performance, and drive cost-efficiency.

The following chart outlines some LLMs to help you get started with specific use cases:



BLOOM, Falcon, GPT-NeoX, Llama 2



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Don't let LLM costs

grow out of control

Select the right type and model size for your use case. Choosing unnecessarily large models can result in excessive inference costs as your user base grows.



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Do optimize performance and costs



Rightsize

your model

You may not need the largest model.

Pick the right type and size of the

model depending on your use case.



Choose the optimal

infrastructure

Explore a broad set of compute options,

including purpose-built accelerators to get the

performance you need while controlling costs.

lower cost per inference over comparable Amazon EC2 instances.

UP TO

Unleash the power of LLMs

Optimize performance and costs for LLM deployment LLMs hold the potential to transform your business and give it a competitive edge. To maximize the business value of your generative AI investments, AWS Inferentia offers high performance at the lowest cost in Amazon EC2. You can easily get started with deploying LLMs on AWS Inferentia using Amazon SageMaker. Empower your organization with LLMs—start your

journey on AWS today.

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Get started with AWS Inferentia







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