# Your Path from LLM Evaluation to Al Acceleration

Whether you're seeking the right model to enhance your business or benchmarking your LLM against competitors, the evaluation process can help. Gather insights that turn into real performance gains.

# What is LLM evaluation?

# If you are looking to purchase an LLM



Assess a model's performance and effectiveness in fundamental tasks and use a variety of techniques to determine the best model for your needs.

Evaluate an LLM's current performance against

If you are looking to improve your LLM



competitors. Identify where the model needs improvement and create a roadmap for training and refinement.

## Which LLM evaluation path is right for you? Purchasing an LLM Improving an LLM

**Evaluation questions:** 

### What's your goal for the LLM?

What's your current data strategy and technology stack?

#### What model is best for your specific use case?

To develop insights:

fine-tune that model?

What paths are available to

# **Evaluation questions:**

### How does your model measure

key metrics like perplexity, BLEU, ROUGE, and F1 score? How do you perform on

benchmarks like GLUE, DeepEval, and OpenAI Evals?

To holistically improve model:

#### Based on your LLM's goals, use case, and domain, what specific

areas need improvement? What techniques will most effectively retrain your model,

from creating new datasets to reinforcement learning from human feedback?

### Evaluation insights inform a unique roadmap to fine-tune an LLM you're using or optimize an LLM you're building.

Assessing LLM performance

Improving an LLM Purchasing an LLM

Tailored evaluation approach

# A healthcare company seeks a

domain-specific LLM to speed

up FDA compliance tasks and

improve productivity. Routine

audits take 3-5 days on-site to

An Al company, focused on

benchmarking its model's

reasoning and problem-solving

capabilities against competitors,

wants to evaluate its proprietary

datasets and improve cognitive

evaluate the model's complex inspection workflows, plus preparation and follow-up activities.

Evaluation considers domain

needs and use cases to find the

right model. Evaluators tailor

simplify inspection workflows,



performance. Complex audits may take weeks, depending on the findings and corrective actions. Establishing needs and fact-finding

Evaluation reveals reproducible

patterns of failure and

behavioral generalization

requiring new datasets and

RHLF to address gaps.

#### assessment metrics to focus on weaknesses slowing down the model's reasoning and regulatory compliance, accuracy high-level cognitive capabilities, in medical language, ability to

and productivity (up to 30%). A fine-tuning roadmap for the application includes curating

domain-specific datasets to

strengthen its understanding

of medical terminology and

cognitive tasks.



Addressing identified weaknesses Model improvements were supported by creating high-quality proprietary datasets trained by effective SFT

and RLHF techniques to enhance

reasoning and problem-solving

improvements across language

generation, summarization, and

high-level cognitive tasks.

#### nuance, driving greater capabilities. Model's performance accuracy during FDA audits was continuously benchmarked against competitors, ensuring and supporting complex

**\$** 

Implementing an LLM

Results: LLM evaluations maximize ROI value

Improving an LLM

### Sunk costs of having to Focusing training purchase a different model throughput on the wrong

S

Potential costs of

no evaluation

Results from evaluation

after realizing fine-tuning

costs were too high or simply

unachievable for the model

chosen.



areas and seeing minimal

performance gains.

## +18% **√22%**

compliance reduced 22%.

Time spent managing FDA

Results you can expect when

fine-tuning an LLM:

Developing an effective UI to simplify engagement

Domain knowledge allowed

for testing against edge cases

Curated datasets boosted

model training, improving benchmark score by 18%.

Results you can expect when

Increased accuracy as model trained on targeted datasets

Diversified inputs and outputs

through multimodality for genAl

retraining an existing LLM:

Get a free 5-minute AI maturity assessment to benchmark your organization's readiness.