

SFT:

input comes from human, output comes from LM and the human rates the response.

This information is used for reward modelling (which we can think of as a classifier)

Then, you optimize a policy with that reward modeling.

Self-instruct: synthetic generation

human-in-the-loop: human doing post-processing tasks.

- human preference dataset, human writes input ^{model outputs,} human rates ^{them.}
- for the SFT dataset both input and output are written by a human

Distillation:

dSFT (generate multi-turn AI dialogues)
AIF (response generation and AI rating)
oDPD (distillation of AI preferences)

4 different training techniques

1. Pretraining the LM
2. In context learning (prompt-based learning)
3. Supervised fine-tuning
4. Reinforcement learning with Human Feedback

Evaluating a dataset:

- evaluating instruction following / correctness
- evaluating the overall quality
- red-teaming (or checking response based on adversarial prompting)
- helpfulness (elo rating)
- can the model choose between a truthful and an untruthful response? (H4 reward model benchmark)

Red Teaming LLMs:

- there's no guardrail for this unfortunately.

using llens as an evaluator (gpth in particular)

- ↳ gpth prefers ppt inputs to human inputs :)
- ↳ prefers more unique and layer responses
- ↳ doesn't align with meth relational responses.

