Exam review

Logistics

Ly N40q, multiple choice

1) primarily lover post exam 1 material

L) couple qs about HW2)
none coding-related

by 8.5" x 11" cheat sheet, both sides, handwritten

Ly please circle your chosen

Topics
L) pretraining vs. post-training
SFT 15. RL
nethod Odate Full modul turing Simple test Ginstruction turing Ginstruction turing Ginstruction turing Ginstruction turing Ginstruction turing Ginstruction turing
Limitations
17 teacher forcing exposure bias
Ly only reference per prompt
La data collection is expensive
Ly don't learn from negative feedback

RLVR 4 RLHF VS. verifiable reword veword model trained on humon bypically done on math | code Lo Bradley - Terry Ly reword hacking Adventage 4 Algorithms L) REINFORCE -> reverd: r(x,y)-b(x) 6) PPD -> value function b) GRPO -> group normalization by KL divergence penalty 5 teep policy model from diverging too much from SPT model

6) Catostrophic forgething

2) clipping based on the policy ratio $P_{\theta_{ons}}(Y_i|X) = \begin{cases} P_{\theta_{ons}}(Y_i|X) & \text{twst region} \\ P_{\theta_{ons}}(Y_i|X) & \text{clip}(P_i, 1-E, 1+E) \end{cases}$

6 PPD to GRED

by feep all the clipping (policy ratio by remove value for

 $A(x,y) = \frac{Y(x,y) - V_x}{V_x}$ $V_x \rightarrow (tdex)$

La group normalization

b) GRPO + verifiable revend + No FI term

Ly only have to store one big model in OPU mem. Po

by RLVR can incentivize "thinking" reasoning"

Prompt reasoning characters in thought "thought"

response: Cthink? ... < /think?

Cansuer > 32 </tansvers

1) increasing test-time computer improves model perf