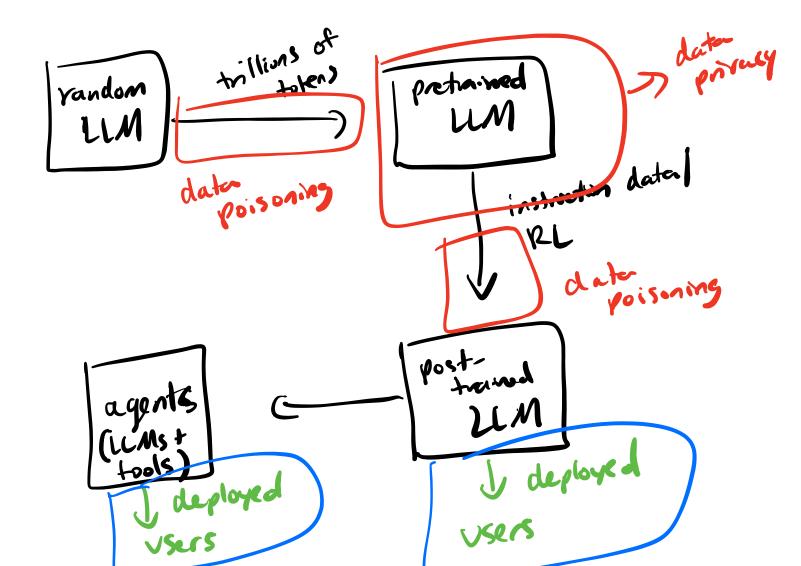
Security + UMS

Ly data privacy
Ly malicious use cases
Ly robustness to affacks
Ly defenses
Ly "misalignment"
Ly reward hacking



jailbrecking prompt injection

Membership inference

L) given text x, is x in the training data for model θ ?

bloss-based attacks

is $P_{\theta}(x) > T$?

is $P_{ret}(x) - P_{\theta}(x) < T$?

b min-K

b) intuition: if we trained on X, more thens of X are assigned high litelihoods

totens w) smallest likelihoods

Jail breaking

La attack on post-taining safety alignment process

Ly model ders will encourage abstention for harmful prompts

b) prompt-based (attacker is the user)

Ly roleplay, obfuscation

6 universal us. model-specific

b) data -based (user is usually victim)

Li retrieved data (e.s. RAF)

La agents more vulnerable to this La hidden instructions

la difenses

La patch jailbreaks w/ more post-trained La classifiers