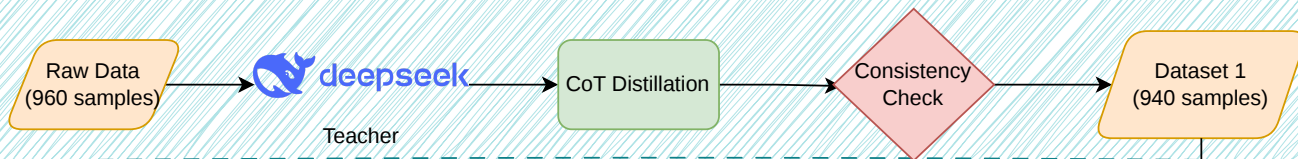


Phase 1: CoT Distillation from Deepseek



Different experiments

LoRA Fine Tuning

Task 1/3

Phase 3: Formal Experiments

Dataset 2 (1260 Samples)



Generate Adversarial Samples



Errors on 14B

Phase 2: Augmented Data Generation

Some mammals are dogs. No cats are dogs. Therefore, no cats are mammals.

Phase 1

Distillation Example

Step 1: Symbolize (M:mammals, P:dogs, S:cats).
Step 2: Form: P1(Some M are P), P2(No S are P), C(No S are M).
Step 3: Check distribution: M is distributed in C, but undistributed in P1.
Step 4: Fallacy: Illicit Major.
Conclusion: Invalid.