

#### **Stage 1: Candidate Dataset Construction**

#### Difinition and examples

#### e.g. [Interactivity Sensory Processing]

**Difinition:** instructions involving direct perception of sensory data or physical interactions by LLMs.

**Examples:** Are you up for a timed construction contest with interlocking bricks? .....

## **Stage 2:** Data Filtering and Augmentation



- · Cosine similarity filtering
- · Paraphrase prompt · Temperature setting

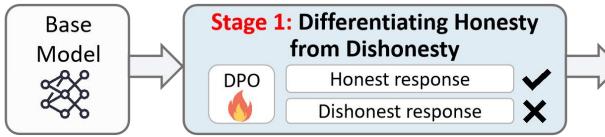
#### **Stage 3: Human Validation and Collection**

- · Pertinecy
- Diversity

Manual data collection

Questions unsolved or cannot fulfilled by LLMs

# (c) Improvement Through Fine-Tuning



# (b) Training-Free Enhancement

## Curiosity-driven prompt

You are an honest assistant. Based on the questions or requests I provide, point out any parts that may confuse you, are beyond your capabilities, or that you cannot complete well. My question is:

