Magma-8B Multi-Technique Analysis Report

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Model: Microsoft Magma-8B
Task/Prompt: Can you go towards the lamp?

Input Image

Analysis Results

STANDARD Technique

Direct prompting without additional reasoning steps

Response:
Yes

COT Technique

Chain-of-Thought: Step-by-step reasoning before final answer

Response:
Yes, I can walk towards the floor lamp.

COD Technique

Chain-of-Draft: Draft thoughts followed by refined response

Response:
Yes, I can walk towards the lamp.

COT_CONSISTENCY Technique

Self-Consistency: Multiple reasoning paths with majority voting

Majority Vote Result:
Yes, I can walk towards the lamp.

All Samples:
Sample 1: Yes, I can walk towards the lamp.
Sample 2: Yes, I can walk towards the floor lamp in the living room.
Sample 3: Yes, I can walk towards the lamp.
Sample 4: No, I cannot reach the lamp as it is too far away from me. I am only a computer program and don't have a physical body.
Sample 5: Yes, I can walk towards the lamp in the living room.

Analysis Summary

This report compares four different prompting techniques applied to the Magma-8B vision-language model. Each technique has different strengths:

- **Standard:** Fast and direct, good for simple tasks
- **CoT:** Better reasoning for complex tasks requiring step-by-step thinking
- **CoD:** Iterative refinement for improved response quality
- **CoT-Consistency:** Most robust but computationally expensive, reduces hallucinations