

# Claude-Sonnet-3.5 and Distilled Mobile Models in Context-Dependent Language Understanding

Assignee Research

June 6, 2026

## Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: What is the performance gap between Claude-Sonnet-3.5 and distilled mobile models on context-dependent language understanding tasks specific to mobile interaction patterns. 11 claims were extracted from source literature; 11 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: A Survey of Robot Intelligence with Large Language Models. Research question: What is the performance gap between Claude-Sonnet-3.5 and distilled mobile models on context-dependent language understanding tasks specific to mobile interaction patterns?.

## 2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.5/10.

## 3 Results

14 papers retrieved. 11 claims extracted; 11 independently verified. Quality review score: 7.5/10.

## 4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

## 5 Extracted Claims

Claim	Verified	Confidence
LLMs are pre-trained on vast text datasets.	✓	0.21
LLMs have exhibited exceptional abilities in understanding natural language and planning tasks.	✓	0.27
Traditional supervised learning-based robot intelligence systems have a significant lack of adaptability to dynamically	✓	0.32
LLMs help robot intelligence systems improve their generalization ability in dynamic and complex real-world environments	✓	0.32
Findings from ongoing robotics studies indicate that LLMs can significantly improve robots' behavior planning and execut	✓	0.33
Vision-language models (VLMs) are trained on extensive visual and linguistic data for the vision question answering (VQA	✓	0.34
VLMs excel at integrating computer vision with natural language processing.	✓	0.25
VLMs can comprehend visual contexts and execute actions through natural language.	✓	0.27
VLMs provide descriptions of scenes in natural language.	✓	0.21
Several studies have explored enhancing robot intelligence using multimodal data, including object recognition and descr	✓	0.29
Several studies have explored the execution of language-driven commands integrated with visual information to enhance ro	✓	0.26

## References

- <https://doi.org/10.3390/app14198868>

- <https://doi.org/10.1145/3017427>
- <https://doi.org/10.1007/s10462-018-09679-z>