Context-Aware Detection of Specialized Language

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Project Overview

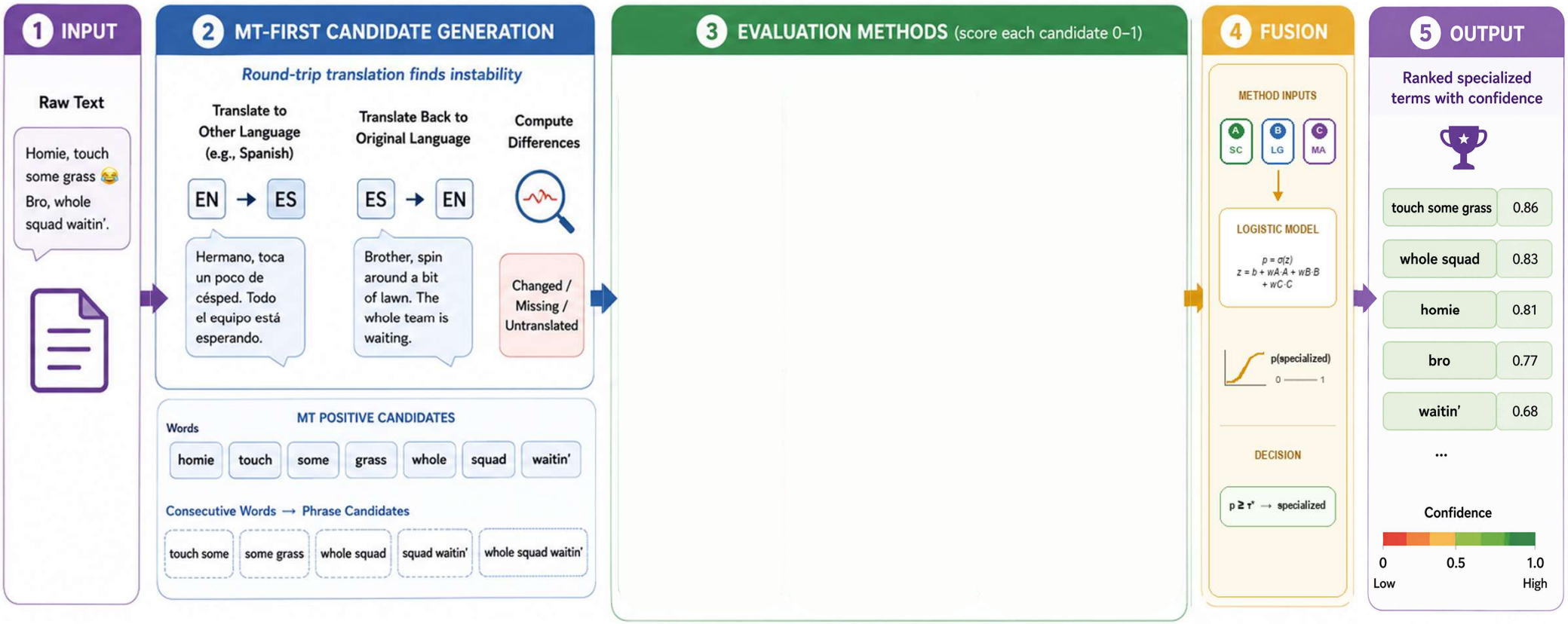
- Specialized Language communicates compressed and specific information
- Examples: slang, acronyms, code words, hidden meanings, dog whistles
- Traditional lexical analysis fails on constantly evolving terms

➢ **Solution**: **CADS** pipeline is context-dependent and based on foundational NLP tasks

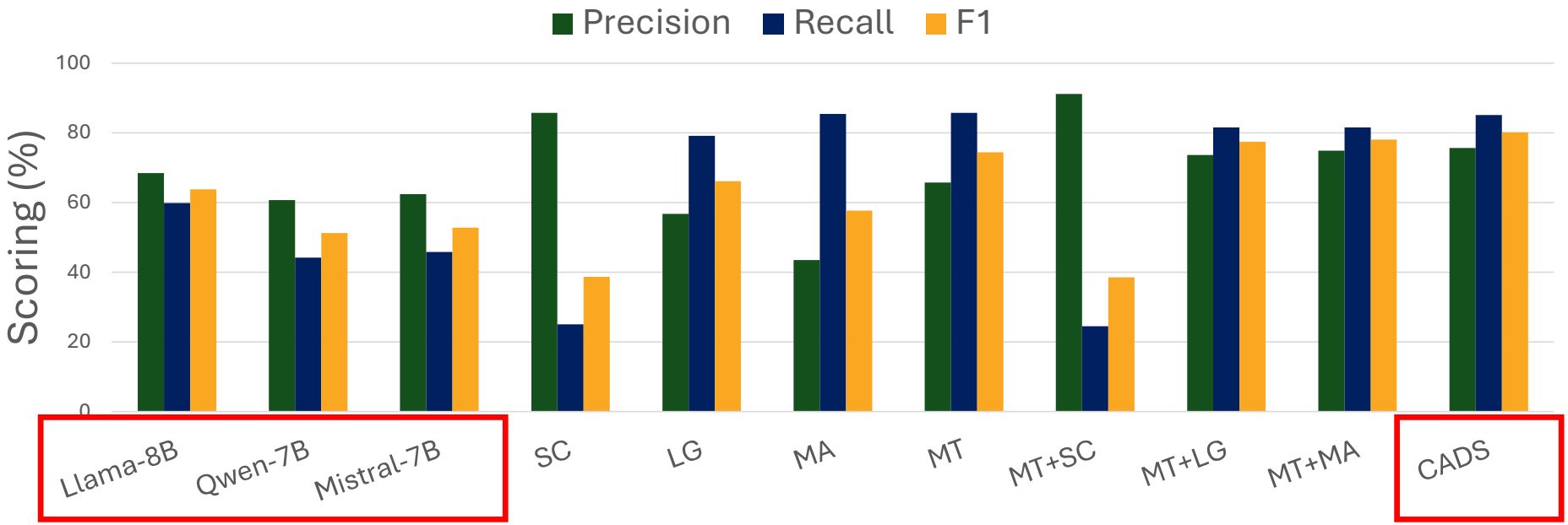


CADS

Context-Aware Detector for Specialized Language



F1 Score Comparisons of Detection Methods to Vanilla Prompting



CADS outperforms individual detectors

CADS outperforms 3 LLMs on English slang detection

Further calibration will widen performance to new contexts and domains

Thank You!

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