Has it been difficult to compare your dialogue state tracking model beyond accuracy on an in-distribution test set?

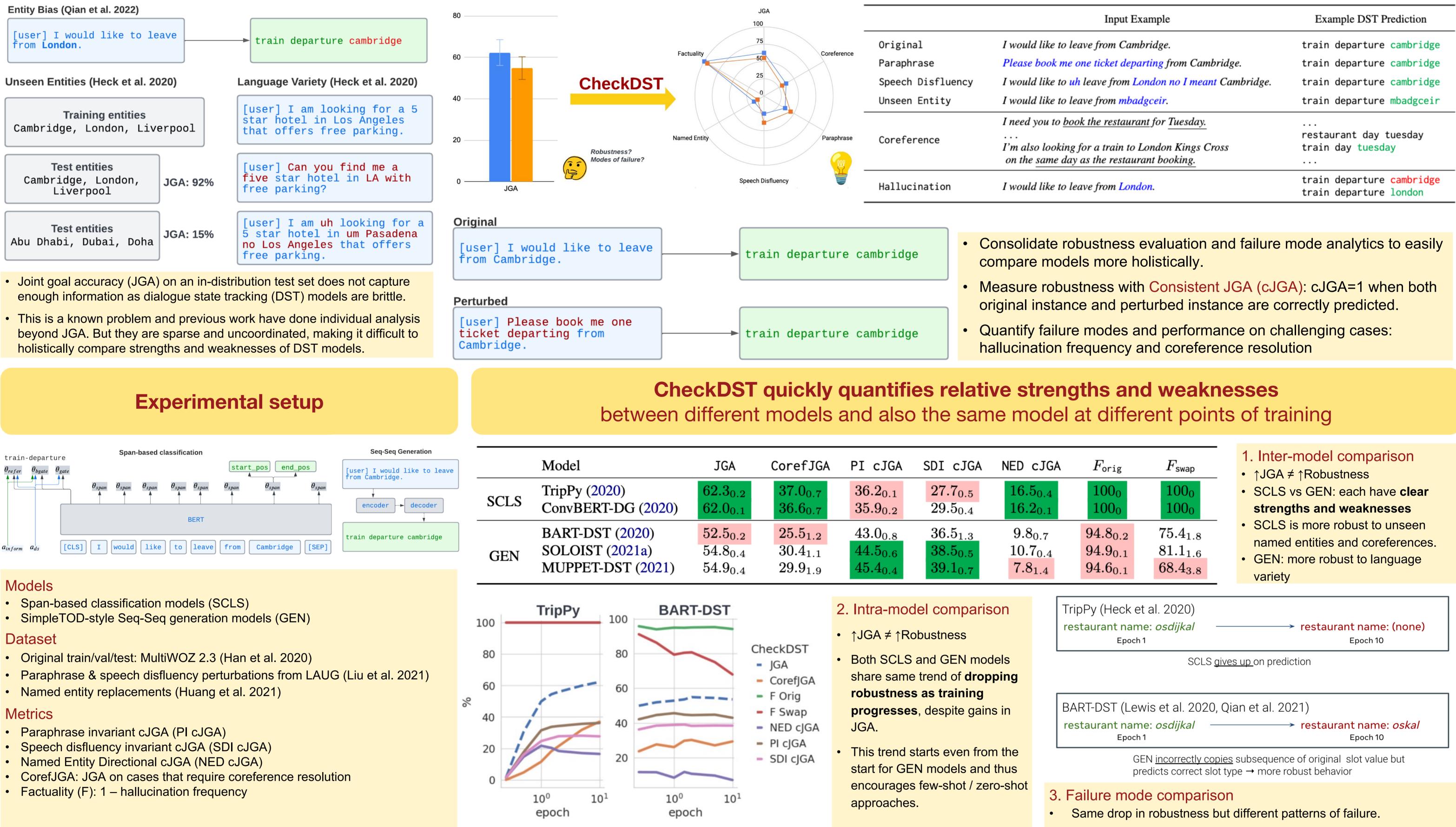
Conduct comprehensive dialogue state tracking diagnostics to discover strengths and weaknesses and overlooked opportunities for improvement.

## **Know Thy Strengths: Comprehensive Dialogue State Tracking Diagnostics**

Hyundong Cho, Chinnadhurai Sankar, Christopher Lin, Shahin Shayandeh, Asli Celikyilmaz, Jonathan May, Ahmad Beirami

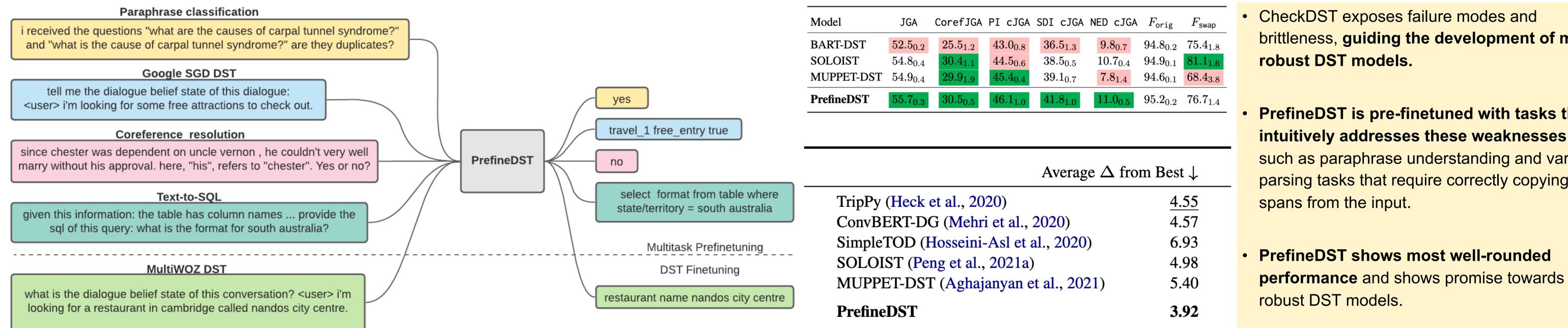
**Problem:** sparse and uncoordinated comparisons beyond joint goal accuracy

Solution: CheckDST Toolkit that facilitates consolidated robustness evaluation and failure mode analytics



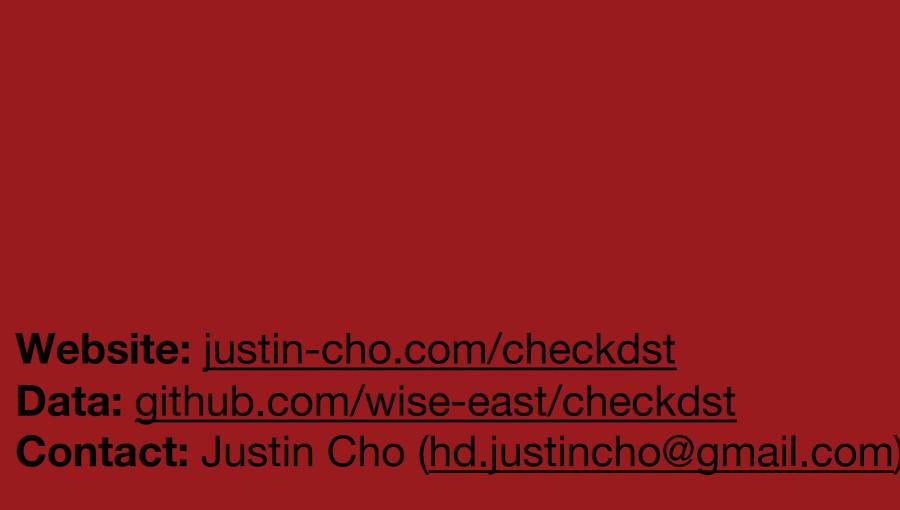
## **CheckDST can guide holistic performance gains!**

### PrefineDST targets exposed weaknesses with pre-finetuning to attain comprehensive improvements.



CheckDST exposes failure modes and brittleness, guiding the development of more robust DST models.

**PrefineDST** is pre-finetuned with tasks that intuitively addresses these weaknesses, such as paraphrase understanding and various parsing tasks that require correctly copying





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