

Demonstrating CEDAR : A System for Cost-Efficient Data Driven Claim Verification

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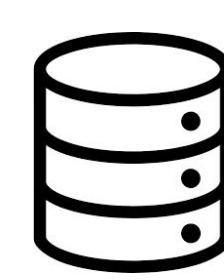
Overview

Claim #1 - For people 60 and up, **29** percent got their weather from local news.

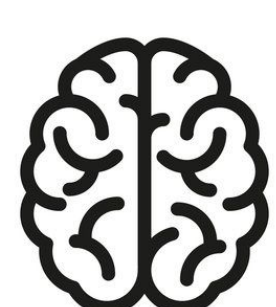
Claim #2 - Among respondents from New England, home to a lot of harsh weather, **94** percent checked the weather every day.



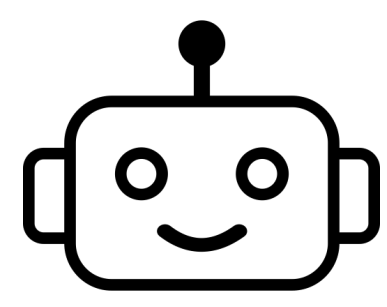
Is this correct?



ResponseID	How do you typically check the weather?	Age	US Region	...
3887201482	Internet search	30 - 44	South Atlantic	...
3886328736	Local TV News	18 - 29	Pacific	...
...



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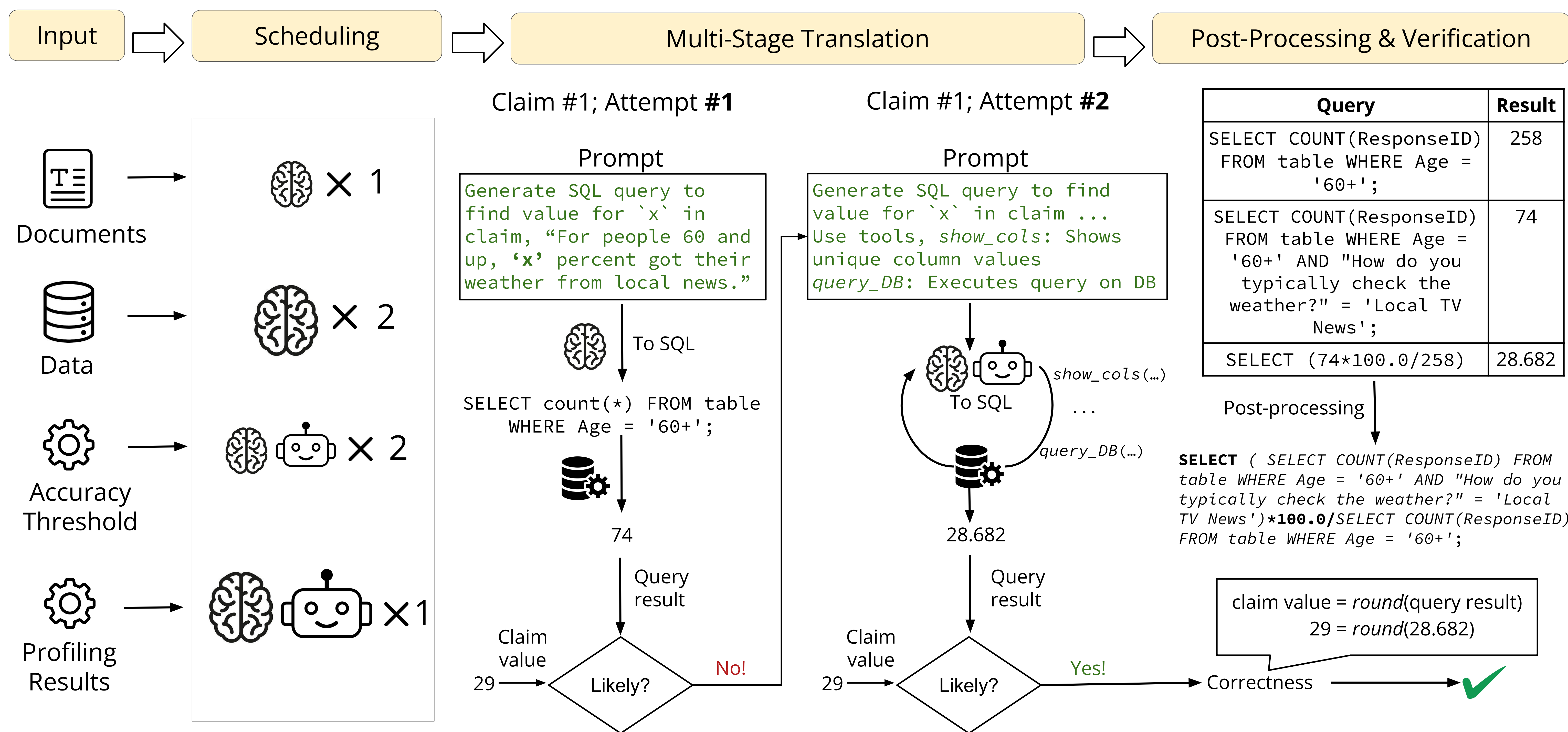
LLM + Agent systems are powerful, but costly \$\$

Our approach:



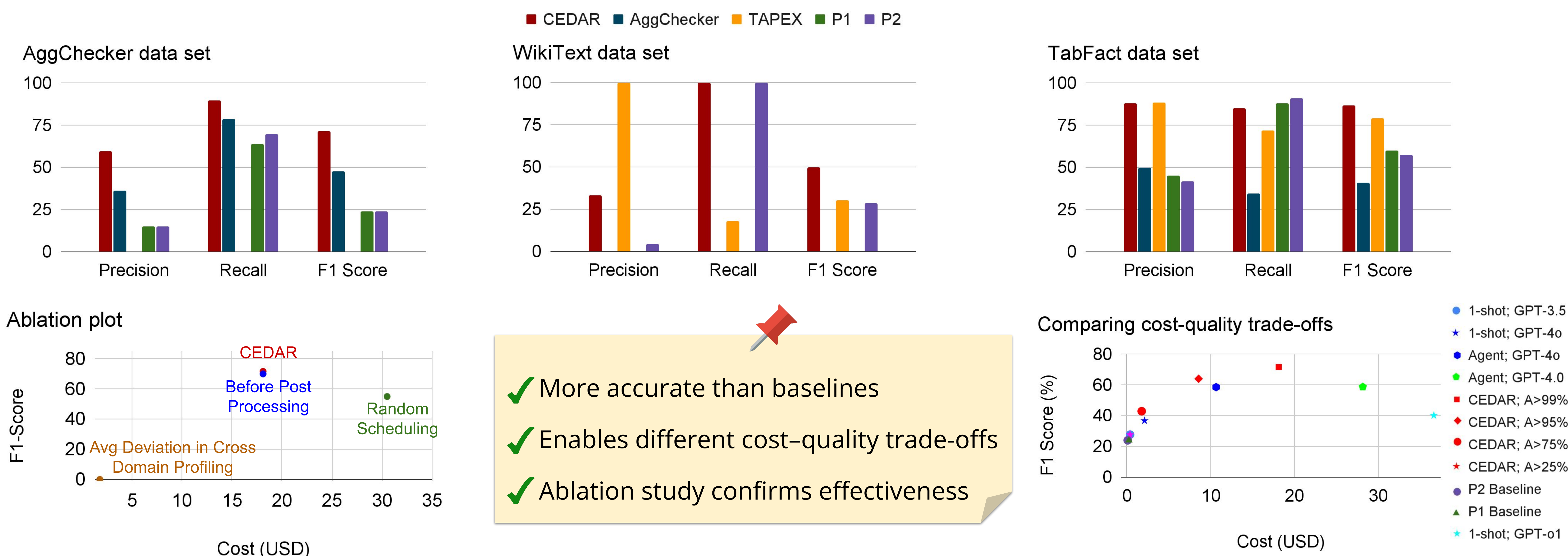
- Cost based optimization
- Multi-stage execution

CEDAR Verification Process



Experimental Results

Three data sets containing 542 claims (textual & numerical)



- ✓ More accurate than baselines
- ✓ Enables different cost-quality trade-offs
- ✓ Ablation study confirms effectiveness