

Zero-Shot or Few-Shot Learning for Low-Resource Languages

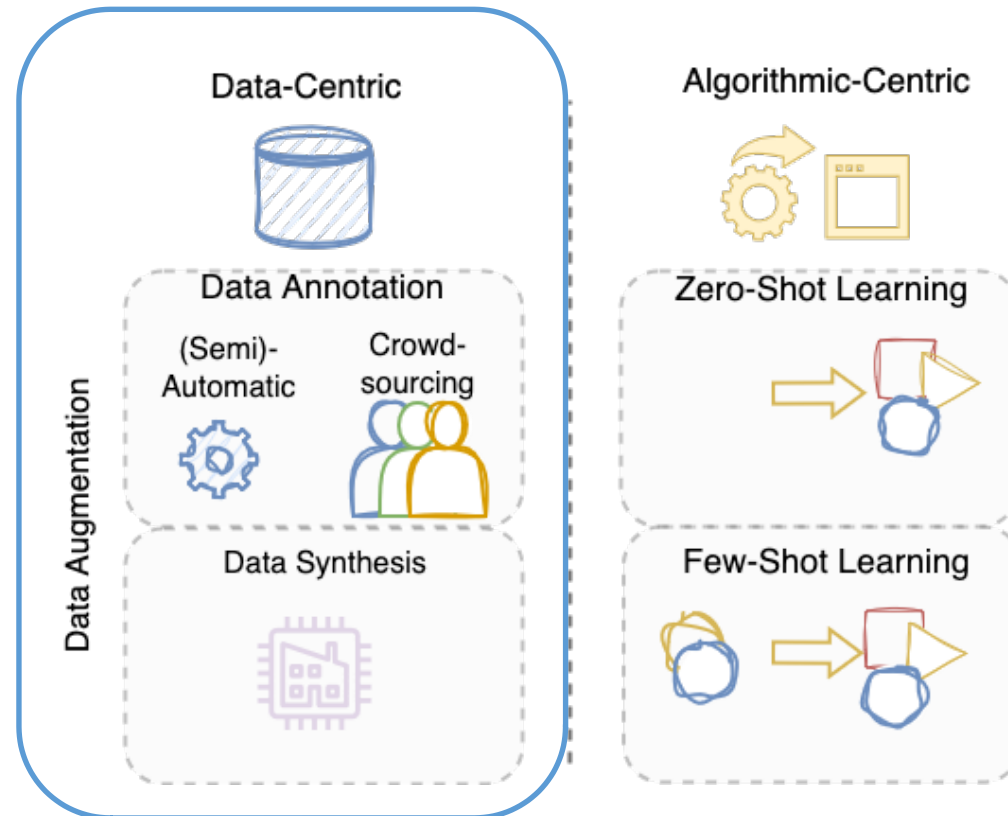
Chunyang JIANG



Motivation

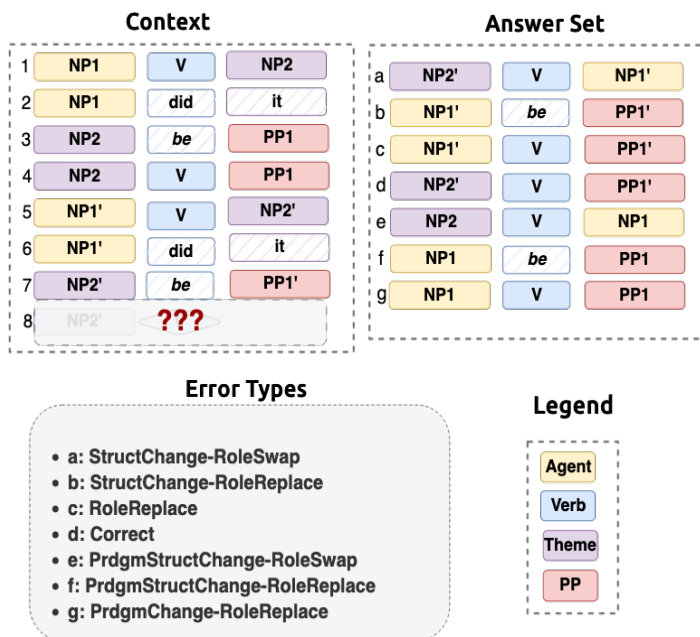
- Recent advances with Large Language Models
 - High **computational cost**.
 - Reliance on **extensive data**, often limited to **a few languages**.
 - Challenges in low-resource constraints
 - Need for models that can learn from **smaller datasets** and are **cross-linguistically valid**.
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Current Solutions in Low-Resource Constraints

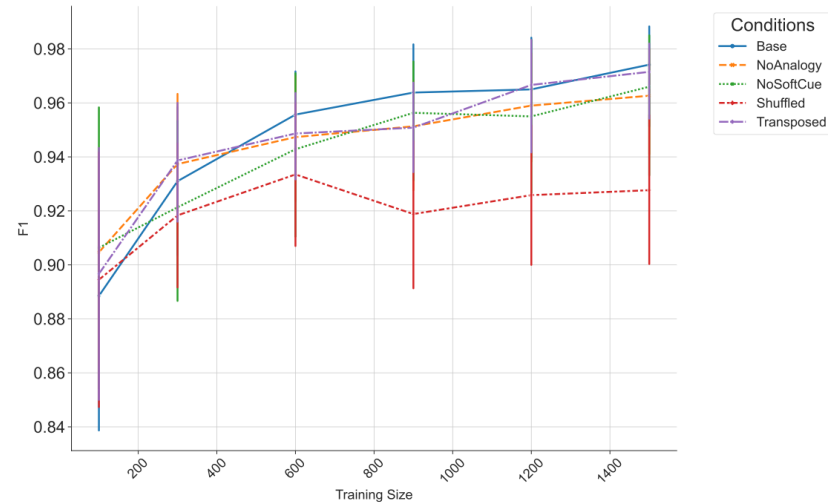


Blackbird Language Matrices Tasks

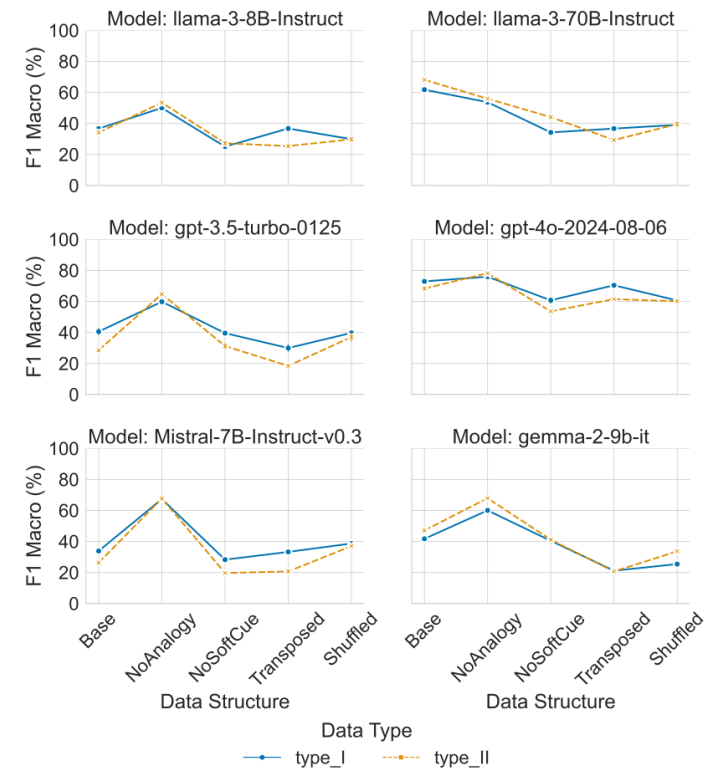
Well-Strucuted Data



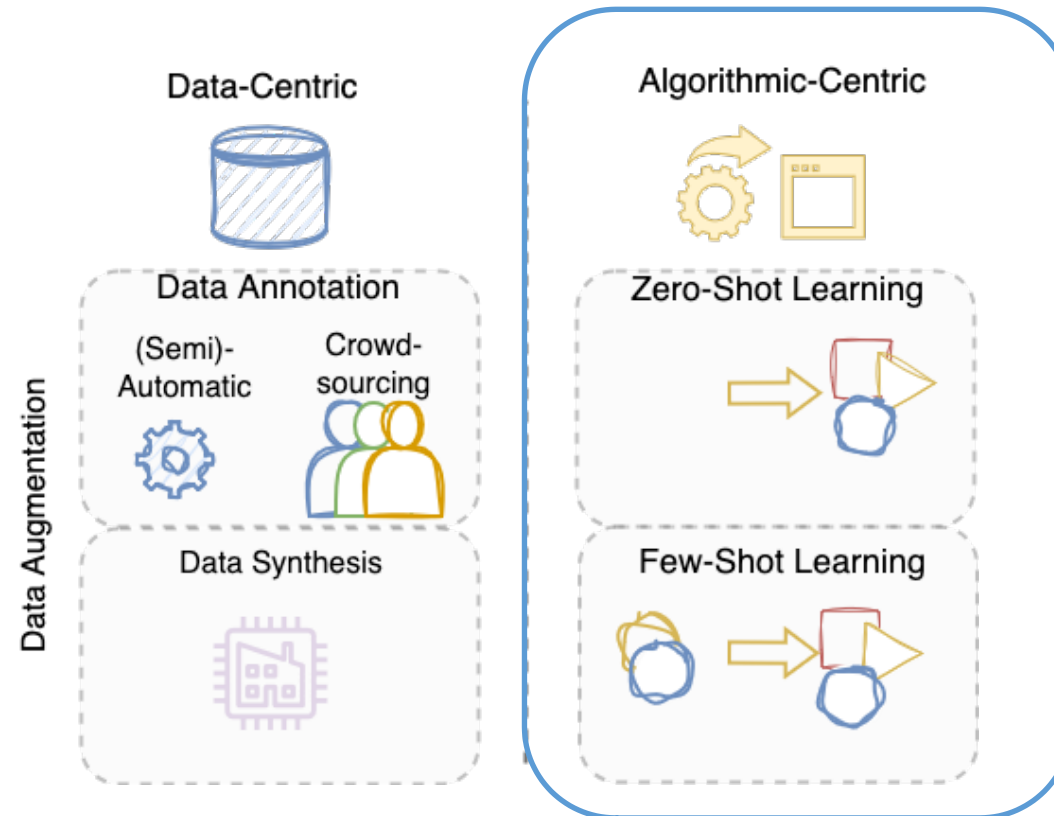
Performance with small models



Performance with LLMs



Next Steps



Thank you!
