

## Small Language Models Improve Giants by Rewriting Their Outputs

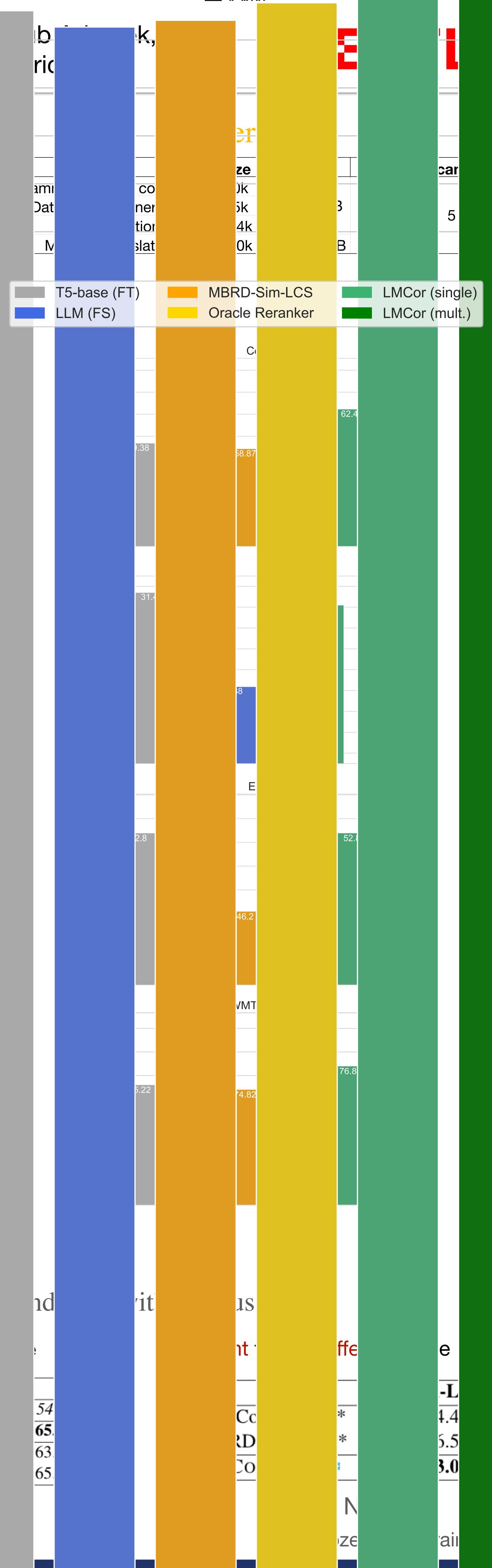
Giorgos Vernikos, Arthur Bražinska Jonathan Mallinson, Alieksei Sev

## **Research Question**

Can we find a **parameter-efficient** way to improve the performance of LLMs **without access to their weights**?

**Observation:** LLMs can generate diverse candidates with *complementary strengths and weaknesses*.

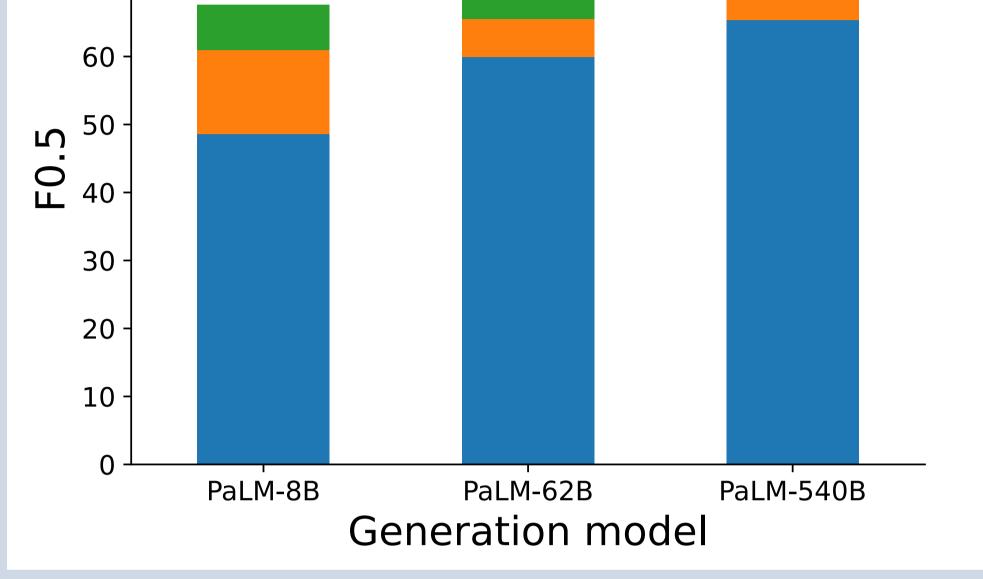
sota	few-shot	oracle-rank	oracle-combine
70			



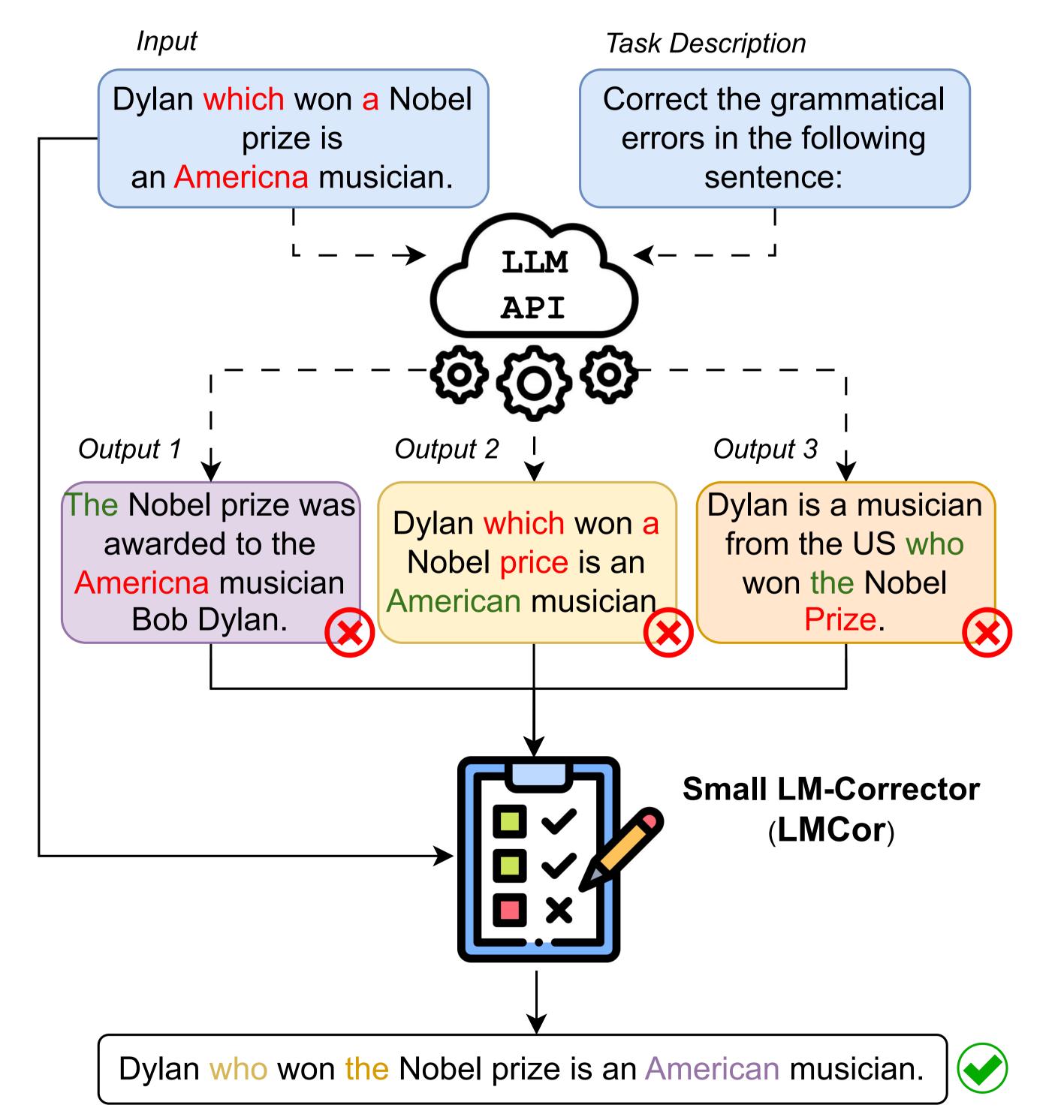
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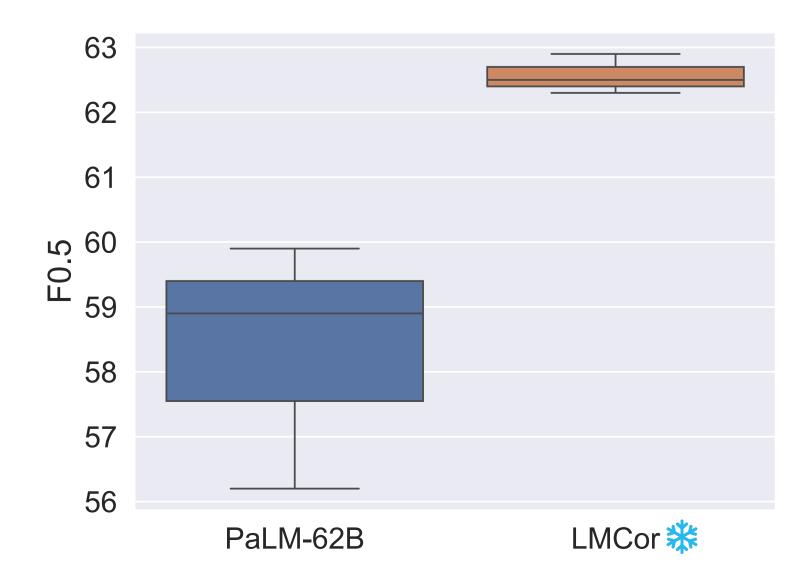
HE



## LMCor







same family, differ
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T5-base	
PaLM (ICL) –	8B 48.6
+ LMCOR (single)*	61.4
+ LMCor (mult.) 🗱	61.8



Analy

georgios.vernikos@epfl.ch

