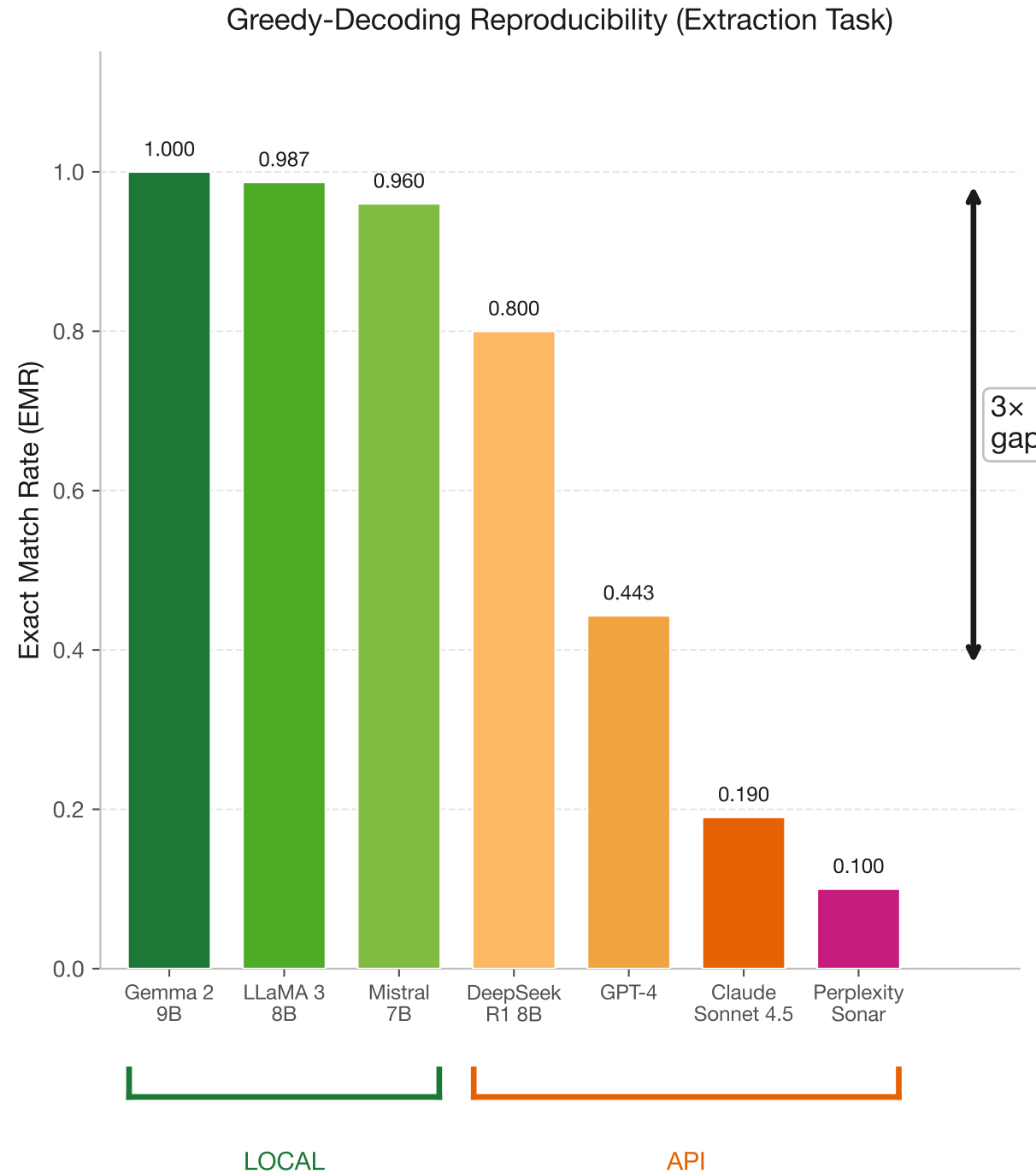
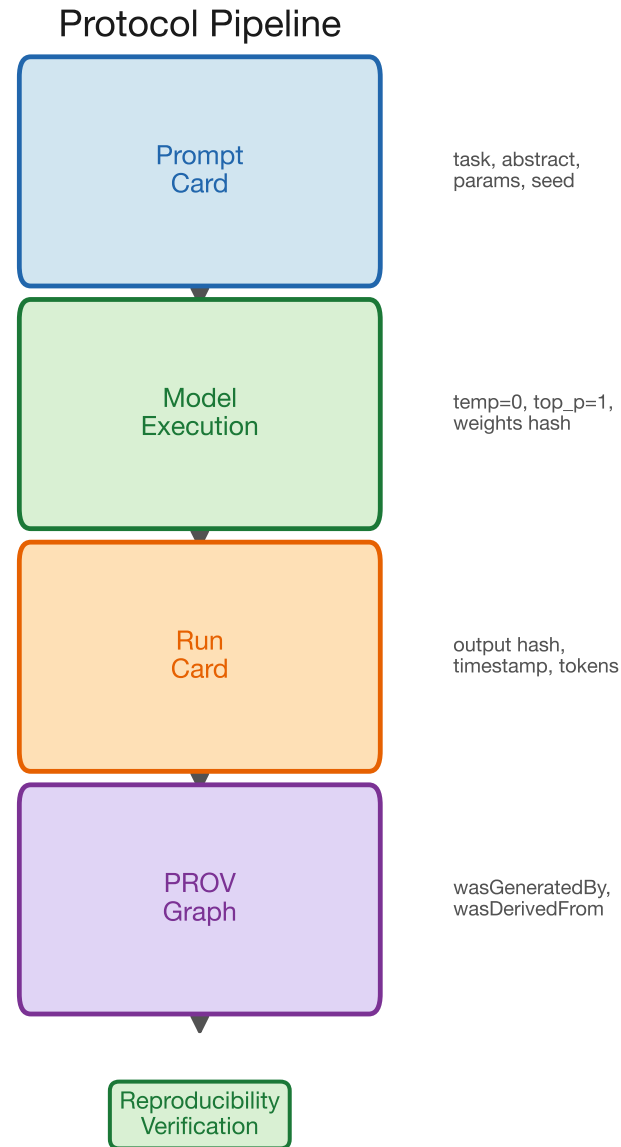


Hidden Non-Determinism in LLM APIs

A Lightweight Provenance Protocol for Reproducible Generative AI Research



avg EMR = 0.982

avg EMR = 0.383

github.com/Roverlucas/genai-reproducibility-protocol

Key Results

3,804

total runs

7

LLM models

4

tasks

4

API providers

<1%

overhead

Local models reproduce near-perfectly; API outputs vary across identical calls.