Benchmarking Large Language Models in Lithuanian

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Could LLMs finish school in Lithuania? Could they graduate from university?

Initializing evaluation...

General knowledge

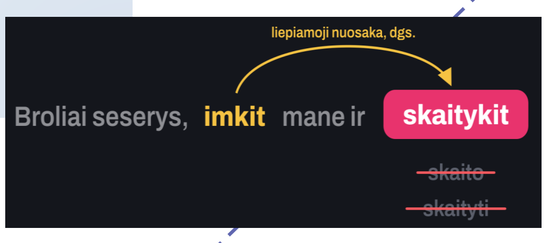
- Fact-based questions
- Conceptual questions
- Multiple disciplines
- Different difficulty levels

Thinking...

Searching for "how to ask for an extension in Lithuanian"... Found it: *„Gal galėčiau atsakyti kiek vėliau?“*

Grammar matters!

- Grammatical error correction
- Controlled generation of correct word forms according to the rules of the standard Lithuanian language



Lexis · Semantics

- Word definitions
- Synonymy
- Contextual meanings

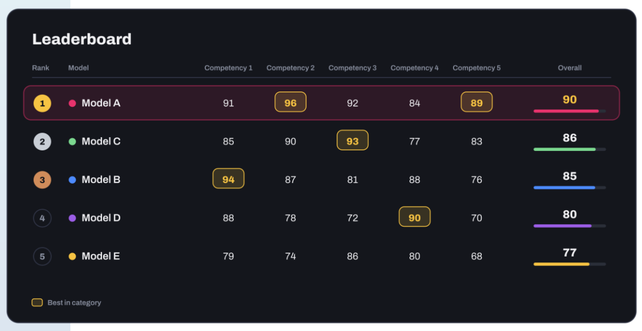
Looking up definition 10s



LLMs' multitask accuracy for the Lithuanian language

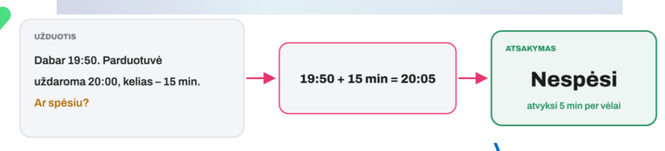
Evaluation of top Lithuanian and non-Lithuanian LLMs

- Tests under standardized conditions
- Fair comparison across task categories and linguistic competencies
- Publicly documented performance metrics → reproducibility and verifiability



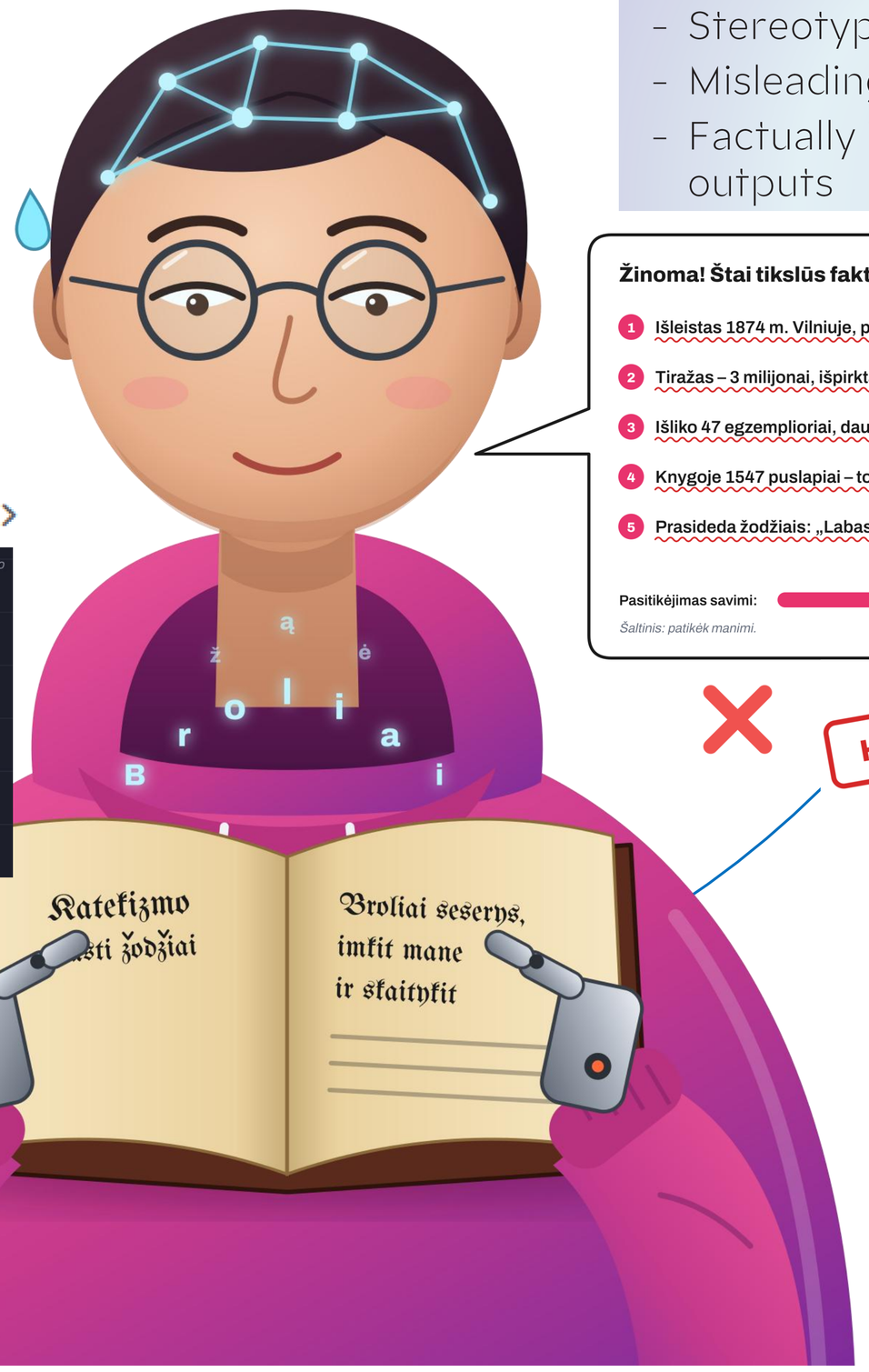
Applied reasoning

Answering questions correctly



Bias · Hallucination

- Stereotypes
- Misleading outputs
- Factually incorrect outputs



Žinoma! Štai tikslūs faktai apie „Katekizmą“:

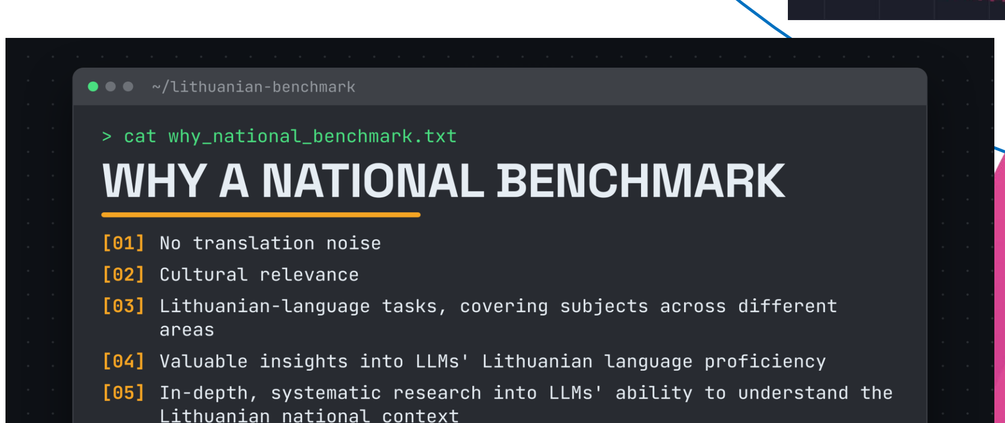
1. Išleistas 1874 m. Vilniuje, prie Gedimino pilies.
2. Tiražas – 3 milijonai, išpirkta per vieną dieną.
3. Išliko 47 egzemplioriai, daugiausia – Rygoje.
4. Knygoje 1547 puslapiai – todėl ir tokie metai.
5. Prasideda žodžiais: „Labas, kaip sekasi?“

Pasitikėjimas savimi: 100 %

Šaltinis: patikėk manimi.

HALLUCINATION

Modular benchmark



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