







OpenFact – Al tools for verification of veracity of information sources and fake news detection. Financed by National Center for Research and Development in Poland (INFOSTRATEG-I/0035/2021-00).

Deep fact check AI assisted fact-check protocol with Large Language Models Part of PhD dissertation

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Research

Motivation. Research questions:

- How to decompose fact-checking process into fine-grained steps?
- How to map fact-checking steps into available tools and methods?
- How to combine individual fact-checking steps into end-to-end solution?
- How to measure success of every step?
- How to automate creating and configuration of the complete process and individual steps?





LLMs for fact checking

LLMs cannot be used directly for fact checking for multiple-reasons: [1]

- unpredictable outputs
- unreliable reasoning process
- limited knowledge (training cut-off)
- limited context understanding
- expensive to be used at scale





Process breakdown





Process





Process





Process





Experiments



Krzysztof Węcel, Marcin Sawiński, Milena Stróżyna, Włodzimierz Lewoniewski, Ewelina Księżniak, Piotr Stolarski, and Witold Abramowicz.

Artificial intelligence—friend or foe in fake news campaigns.

Economics and Business Review, 9(2), Jul. 2023.



