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How Can AI Research Tools be Used to Enhance Academic Productivity and Its Impact?

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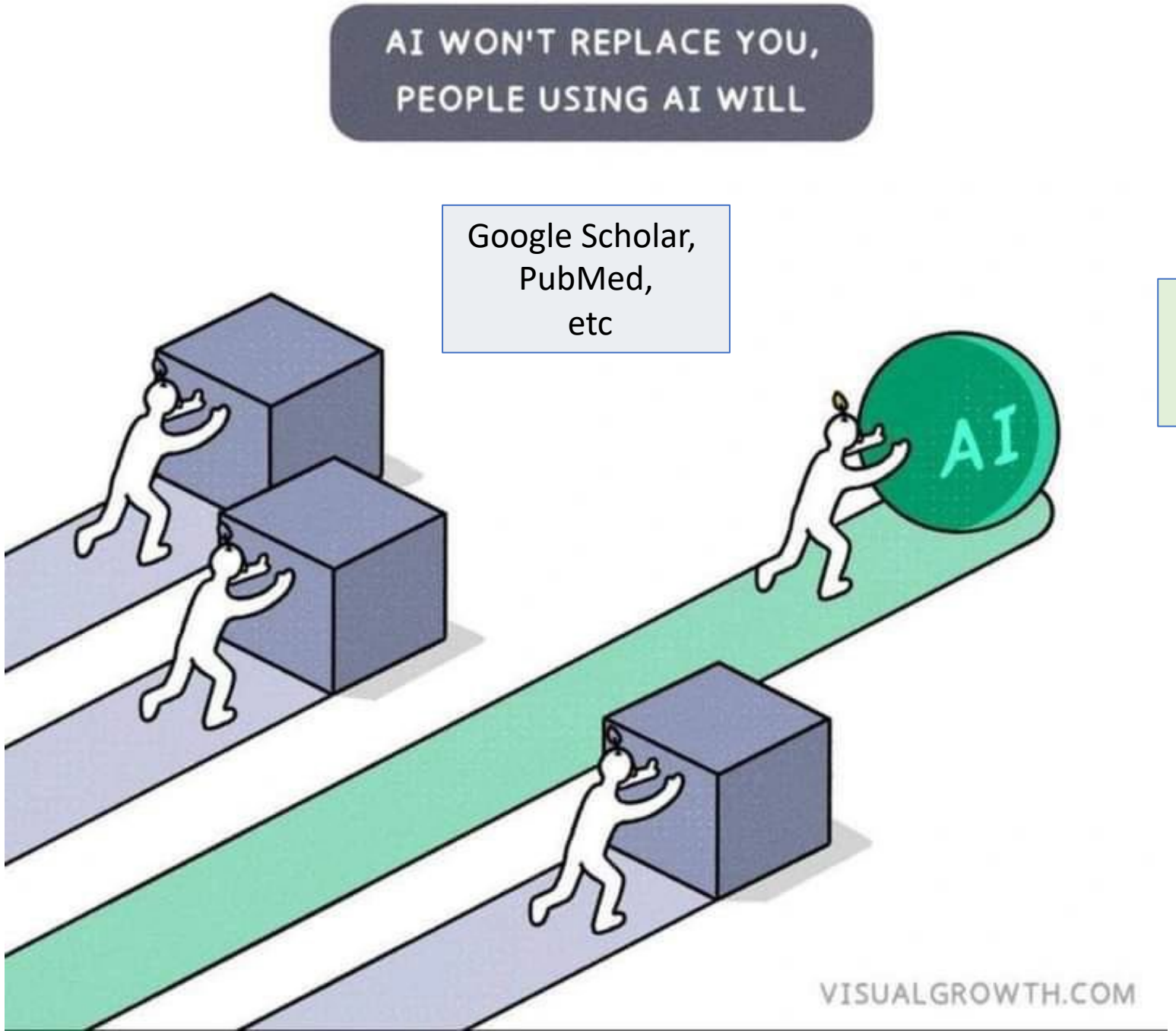

Google Scholar,
PubMed,
etc

Scite,
Concensus,
etc

Mini guide to write a research paper

INTRODUCTION

- State the problem.
- State what is known and what is unknown.
- State your aim and hypothesis.
-

METHODS

- Data Source
- Population
- Measure
- Statistical Analysis

RESULTS

- Describe your results
- State important findings first
- State results in a logical narrative,
- Report all results
- Both negative and positive results should be included

DISCUSSION

- Summarize the findings
- Compare and contrast your results
- Recognize limitations
  Outline implications

CONCLUSIONS

- Communicate the take-home message

Adapted from Asad Naveed, 2024

How to start to writing research paper?

(adapted from: Prof Lennart Nacke, PhD)

1. Start with problem statement
2. Read widely, but not deeply at first
3. Talk to people
4. Write early and often
5. Don't be afraid to fail

How to formulate problem statement?

Problem Statement Formulation with AI

1. Choose right AI
2. Create right prompt (eg: Chat GPT)
3. Run
4. Check research questions

How to check your problem statement

Hernon, P., & Schwartz, C. (2007)

1. Lead-in
2. Declaration of originality (e.g., mentioning a knowledge void, which would be supported by the literature review)
3. Indication of the central focus of the study
4. Explanation of study significance

How to read widely?

1. Create a database (e.g., Google Scholar).
2. Go to elicit.org and type in your research question.
3. Elicit will give you a summary of the top 4 articles that are most relevant.
4. Go to Research Rabbit to create interactive visualizations of how different papers are related.
5. Start to have discussion

Method section

- Research design
- Sample size and population
- Data collection methods
- Data analysis methods

Conclusion

- Utilize artificial intelligence for academic tasks but refrain from relying on it for critical thinking.
- Approach AI as a research assistant, not a supervisor

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Q & A