Clever Republic
Implementing Data Intelligence

AI for Research Cheat Sheet
| Working Clever with AI.

Best GPTs
Deep Research: helps explore complex topics by providing detailed, sourced answers.
Consensus: chat with scientific literature, for academic research
ChatPDF: analyses PDF files and provides summaries side-by-side
Data Analyst: can generate datasets, visualisations
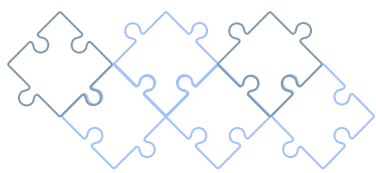*Omega1:* reinforcement learning for complex reasoning

Roleplay with ChatGPT:
Researcher: extract insights & refine structure
Reviewer: validates AI-generated content for credibility & alignment
Data Analyst: ensures AI-generated visuals and datasets are correctly interpreted
Supervisor/Peer Reviewer: provides feedback on AI-enhanced outputs.

Practical AI Workflow for **RESEARCHERS**

Step 1: Use ChatGPT for initial literature reviews
Step 2: Upload PDFs to ChatPDF for detailed insights
Step 3: Use AI writing tools to refine your academic text
Step 4: Visualise concepts with AI-powered diagramming tools
Step 5: Manage citations ethically with AI-supported reference tools

WHY?
Supercharge your research workflow with AI-powered tools! Use ChatGPT, ChatPDF, and AI diagramming tools to optimise literature reviews, extract insights, and visualise research concepts. AI will not replace researchers, but researchers who use AI effectively will gain a significant advantage. Experiment with AI-driven research tools, refine your workflow, and stay ahead in your field!

6X | PROMPTS Assistance

1. Literature Review
"Summarise key research findings on [topic] from the last [timeframe]."
"List the most cited papers on [topic] and summarise contributions."
"Compare and contrast different theories on [topic] and summarise key differences."
"Create an overview of methodologies used in research on [topic]."

2. Writing Structures
"Rewrite this paragraph to be more concise and academic."
"Provide a structured outline for a research paper on [topic]"
"Generate an abstract based on this introduction and conclusion."
"Identify gaps or missing arguments in this text"
"Suggest alternative wording to improve clarity in this section."

3. Data analysis: Data Insights
"Analyse this dataset and summarise trends."
"List common biases that could affect the interpretation of the data."
"Provide a step-by-step explanation of [data analysis method]."
"Explain what this output means in simple terms."

4. AI for Diagramming & Research Visualisation
"Create a mind map linking key concepts in [research area]."
"Generate a flowchart explaining the steps in [research method[."
"Visualise the cause-and effect relationship between [concepts]."
"Suggest a research workflow for conducting a systematic literature review."

5. AI for Academic Integrity & Clarification*
"Generate a properly formatted APA citation for this source."
"List the most frequently cited works in [field of research]."
"Extract and summarise references from this article."
* Always cross-check references! Use AI for summarising, not fact-checking.

6. Keep track of AI-Assisted Research
"Track the changes AI has suggested in this document over multiple versions."
"Generate a summary of the edits and refinements using AI tools."
"Provide a list of sources cited by AI in this research."
"Create a version history for this document showing AI-assisted modifications."

40%

40% Reduced Time on Literature
Researchers using AI tools effectively can reduce time spent on literature reviews by up to 40%, according to studies on AI-assisted research workflows (Adapt AI & Academic Efficiency Reports).