(a) Prompt-Driven Interaction

Starting from scratch

- Challenges in crafting precise prompts
- Lack of familiarity with the overall research design process

Single-threaded system

(b) Workflow-Guided Support

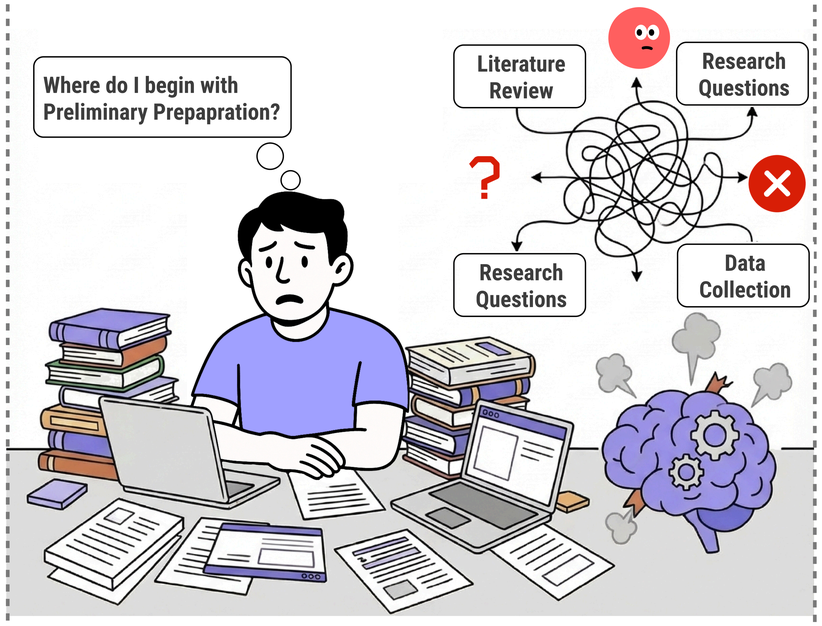
Step-by-step guidance, easy to get started

- High efficiency
- Good user experience
- Increased research confidence

Multi-threaded system

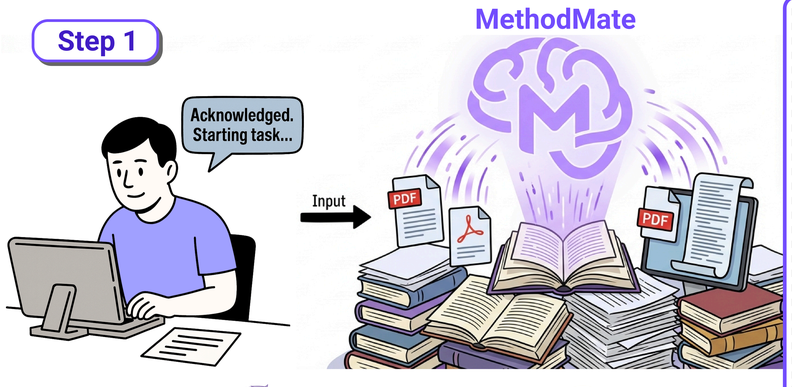
Case1: Preliminary Preparation

- I don't know how to begin the study.
- What is quantitative research?



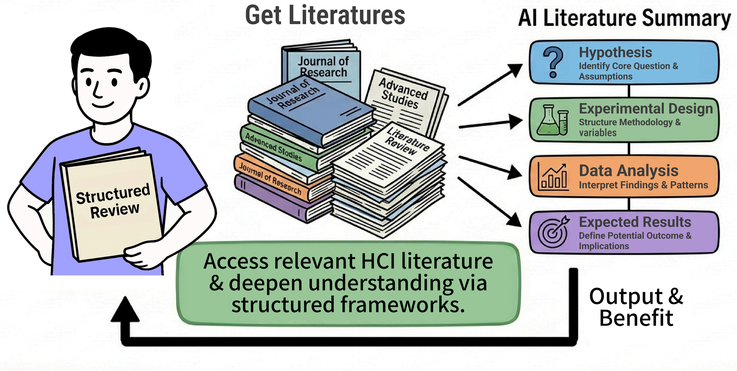
- I got some highly relevant HCI papers.
- The quantitative research extracted by MethodMate has deepened my understanding.

Step 1



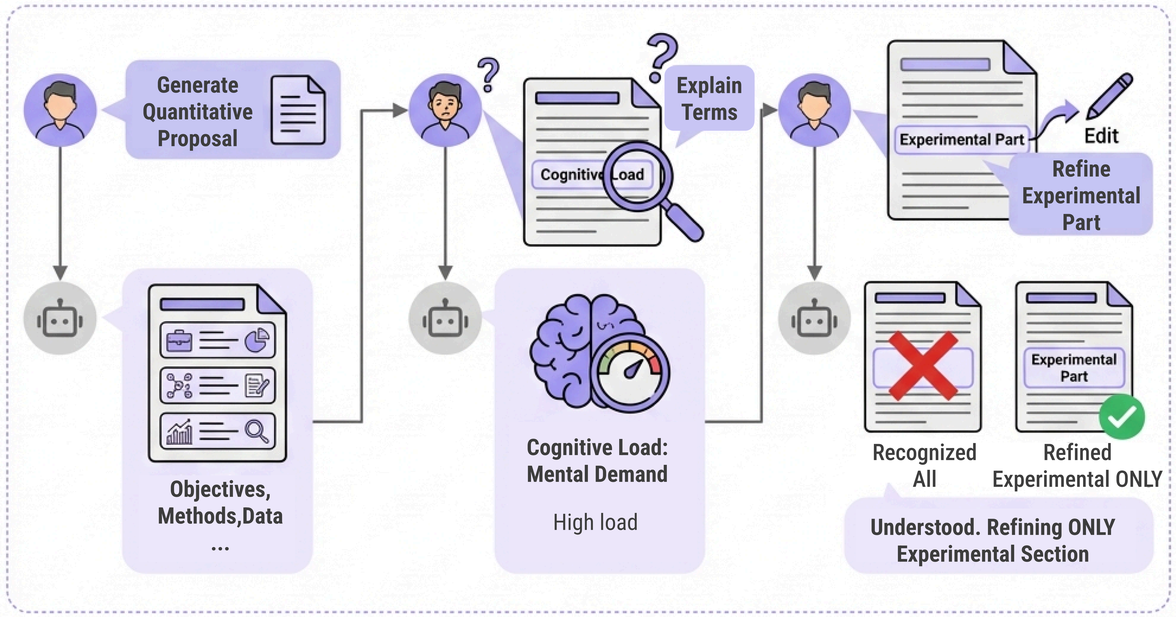
Automatic Recommendations

Step 2



Case2: Design a Quantitative Research Proposal

- I don't know where to begin in designing a quantitative research.
- Many of the contents in the proposal are unfamiliar to me. Are they all accurate? ? How should I choose among them? ?



Step 3

User Context & Goals + Selected References

GENERATE PROPOSAL

Step 4

Evaluate the Proposal

AI EVALUATION

LOGIC — Comments

RATIONALITY — Comments

FEASIBILITY — Comments

USER EVALUATION

USER FEEDBACK

Comments

Step 6

A Quantitative Research Proposal for LLM's Assisted Creative work (Comparison, Evaluation)

MULTI ROUND

COMPARISON | EVALUATION | ITERATION

FULL PROPOSAL

Hypothesis

Experiment Design

Data Analysis

Expected Results

Step 5

Iterate the Proposal

Hypothesis | Experiment Design | Data Analysis | Expected Results

Data Analysis

Iteration

Automatic Iteration: AI Auto-Iterates based on feedback & evaluation.

User-Driven Iteration: Enter your specific feedback here. Submit

Initial Proposal → Optimized

ITERATION ON SPECIFIC CONTENT

Workflow Guidance

STEP 1: Search relevant literature → STEP 2: Focus on quantitative research → STEP 3: Conceive a quantitative proposal → STEP 4: Evaluate the research proposal → STEP 5: Iterate the research proposal → STEP 6: Finalize the research proposal