Checklist for AI-Powered Brainstorming Techniques

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Checklist
AI-Powered Brainstorming Techniques

1. Associative Ideation

- [ ] Input a problem statement and a random word.
- [ ] Allow AI to generate ideas connecting the two concepts.
- [ ] Review and refine unexpected and innovative solutions.

Example: Input "coffee" and "space travel" to generate ideas like "zero-gravity coffee brewing" or "constellation-themed latte art."

2. Trend Analysis and Extrapolation

- [ ] Provide AI with data on current trends across various fields.
- [ ] Use AI to analyze trends & extrapolate potential future developments.
- [ ] Generate innovative ideas and anticipate future needs and challenges.

Example: For fashion design, AI might suggest futuristic clothing concepts based on current fashion trends, technological advancements, and social changes.

3. Combinatorial Creativity

- [ ] Input various concepts, features, or products into the AI.
- [ ] Allow AI to generate new combinations and hybrid ideas.
- [ ] Evaluate and iterate on the novel combinations.

Example: In game design, combine elements from different game genres to generate innovative game mechanics.

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4. Constraint-Based Ideation

☐ Specify constraints or parameters for the AI to consider.

☐ Use AI to generate ideas that meet specific criteria while being creative.

☐ Assess and select ideas that fit within the defined constraints.

Example: For an eco-friendly packaging solution, specify constraints like "biodegradable," "water-resistant," and "cost-effective."

5. Analogical Reasoning

☐ Provide AI with examples of successful solutions from various domains.

☐ Use AI to draw analogies and apply these solutions to your problem.

☐ Review and adapt analogical solutions to fit your specific context.

Example: Design a new urban transportation system by drawing analogies from natural systems like ant colonies or bird flocks to suggest efficient routing algorithms.

6. Divergent Thinking Prompts

☐ Use AI to generate divergent thinking prompts that encourage out-of-the-box ideas.

☐ Explore and document all possible ideas without immediate judgment or filtering.

Example: Ask AI to provide prompts like "What if there were no limitations on budget or resources?" or "How would a child solve this problem?"

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7. Scenario Planning

- [ ] Input various future scenarios into the AI.
- [ ] Allow AI to brainstorm ideas and solutions for each scenario.
- [ ] Analyze and compare ideas across different potential futures.

Example: For a business strategy, input scenarios like "economic downturn," "technological breakthrough," and "regulatory changes" to generate corresponding strategies.

8. Crowdsourced Brainstorming

- [ ] Use AI to aggregate and synthesize ideas from multiple contributors.
- [ ] Combine human creativity with AI's ability to organize and enhance ideas.
- [ ] Refine and prioritize crowdsourced ideas for implementation.

Example: Collect input from team members on a new product feature and use AI to identify common themes and innovative suggestions.