



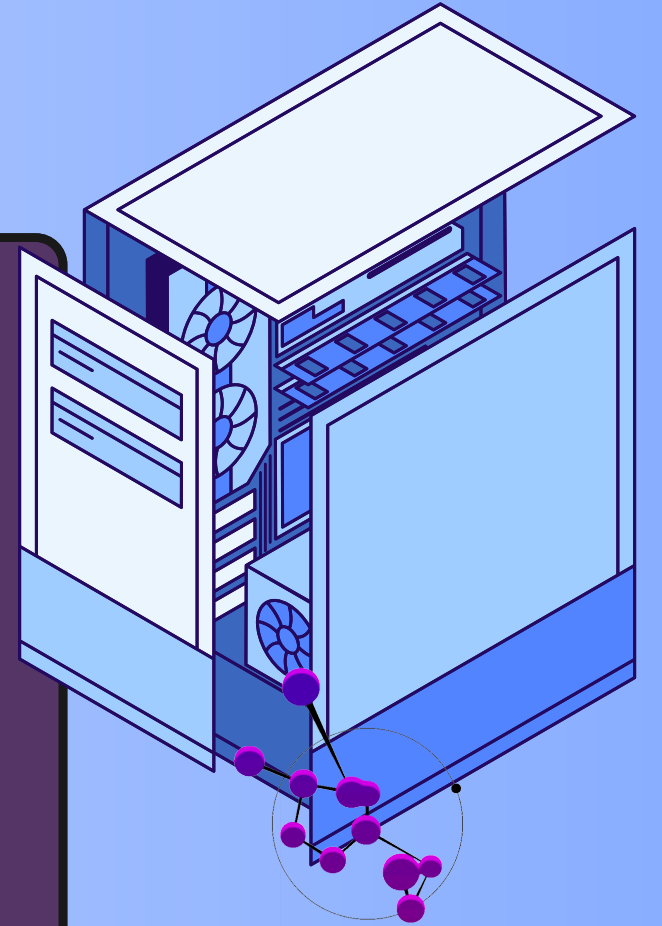
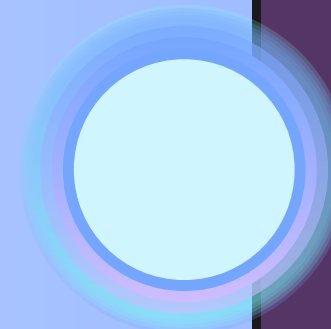
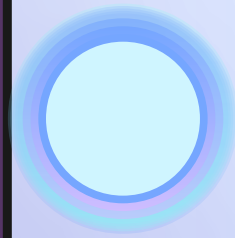
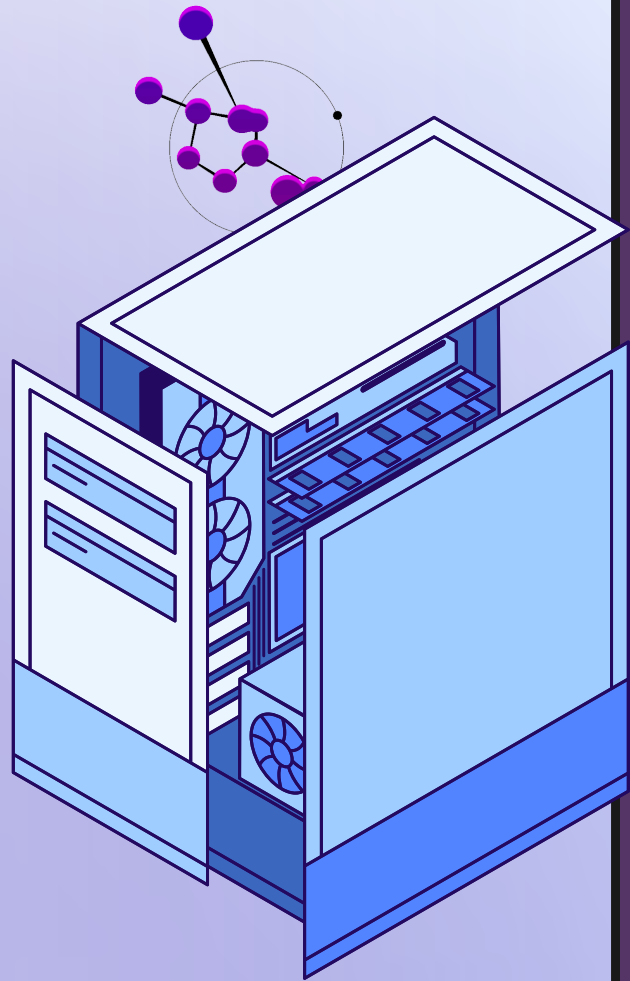
AI SOLUTIONS





MY NAME IS ALEKS

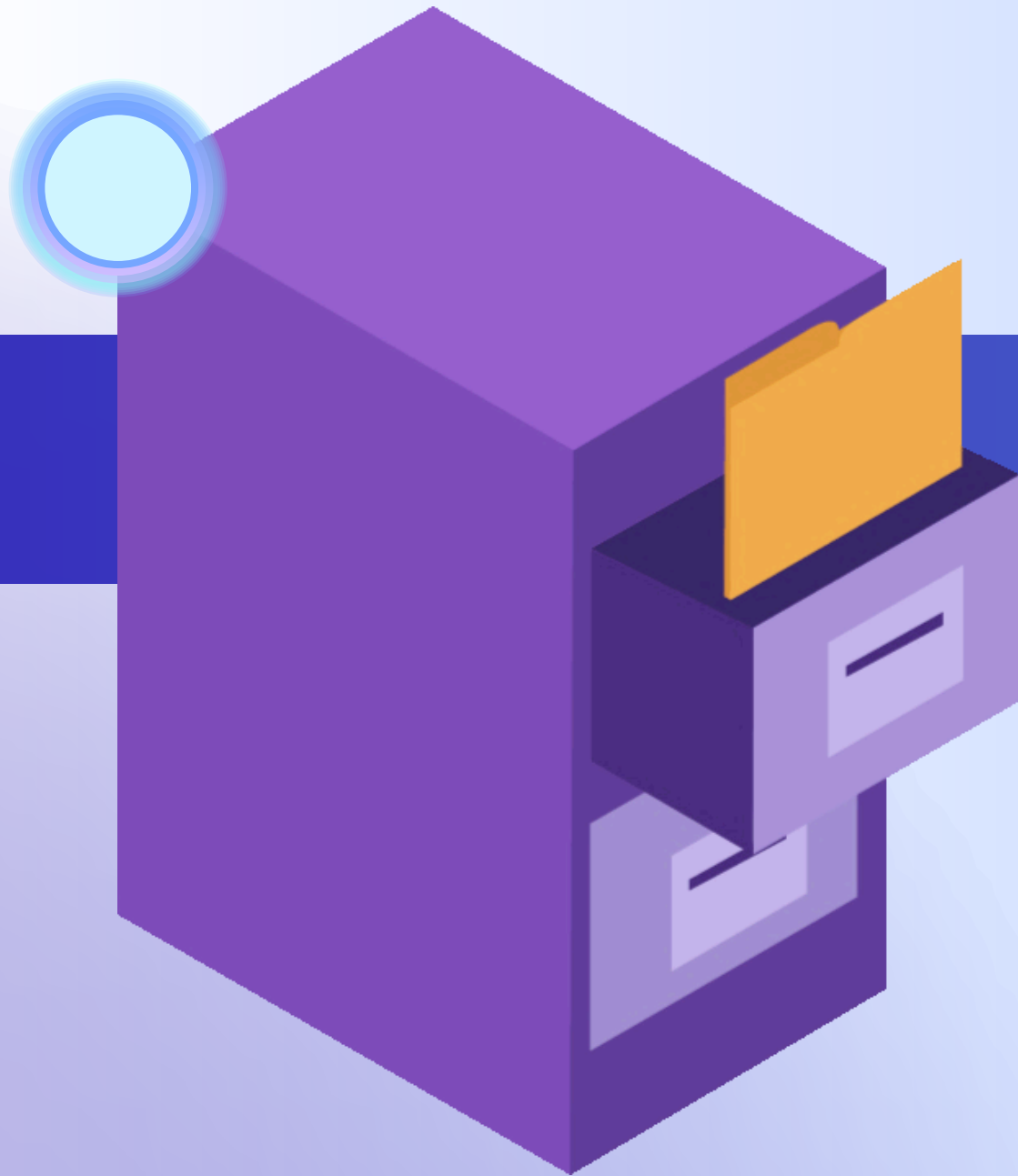
AI Ambassador @ SAP





TODAY'S AGENDA

- ✱ How can **AI** be useful to 🙌
- ✱ Cool **AI solutions** 🤖
- ✱ How should we **look at AI as devs**
- ✱ Will **AI** steal my job?



GOOGLE'S NOTEBOOKLM

Audio Overview

Video Overview

Mind Map

Reports

Flashcards

Quiz

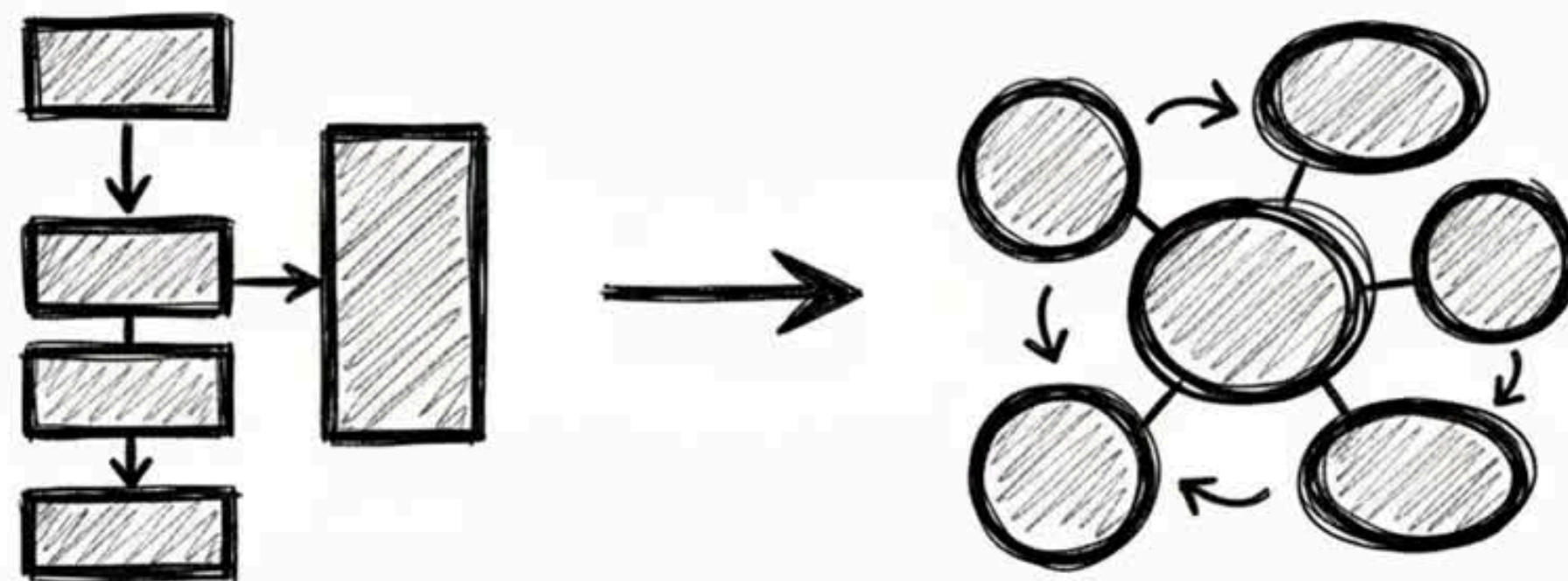
Infographic

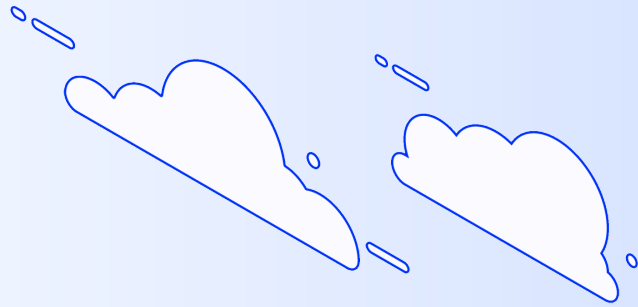
Slide deck

Data table

🔍 [Software Lifecycle NotebookLM](#) ✕

Жизнен цикл: Водопад до Аджайл





NOTEBOOKLM

AUDIO OVERVIEW

Облачни Дизайн Паттерни: Стабилна Архитектура за Модерни Приложения

Облачните приложения се сблъскват с уникални предизвикателства; хардуер със споделени ресурси, непредсказуеми натоварвания и ненадежден мрежови връзки. Тези паттерни, предоставени от Microsoft, са доказани практики за изграждане на устойчиви, мащабируеми и сигурни системи в среди като Azure.

Основни категории предизвикателства



Устойчивост и наличност
Системи, които се самовъзстановяват.
Гарантиране на работата дори при частични повреди на инфраструктурата или мрежата.

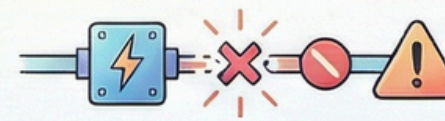


Производителност и скалируемост
Гъвкавост според натоварването.
Приложенията трябва автоматично да се разширяват при пикове и да се свиват при затишие.

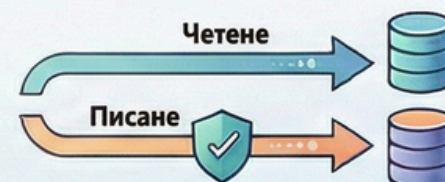


Сигурност
Многослойка защита в открити мрежи.
Изолиране на чувствителни данни и услуги чрез шлюзове и делегирана идентичност.

Топ 3 паттерни за стабилност



Circuit Breaker (Прекъсвач)
Стоп на каскадните грешки.
Предотвратява повтарящи се опити към дефектна услуга, позволявайки ѝ време да се възстанови.



CQRS (Разделяне на отговорностите)
Оптимизирано четене и писане.
Разделянето на интерфейсите за заявки и актуализации максимизира мащабируемостта и сигурността.



Retry (Повторен опит)
Автоматично справяне с временни грешки.
Прозрачно поетаря операции, провалени поради временна загуба на свързаност.

Сравнение на паттерни според техния основен фокус

Sharding	Мащабируемост на данни	Data Management
Gatekeeper	Повишена сигурност	Security
Valet Key	Директен достъп до ресурси	Performance



LM ARENA



Figure out which LLM works best
Compare results from different LLMS
Look at the LMArena leaderboard
Checkout benchmarks



[ARENA.AI](#)





OPTIMIZE YOUR PROMPTS

Vibe Check Your AI: Generic prompts get generic "AI-flavored" answers; optimized prompts get results that actually sound human.

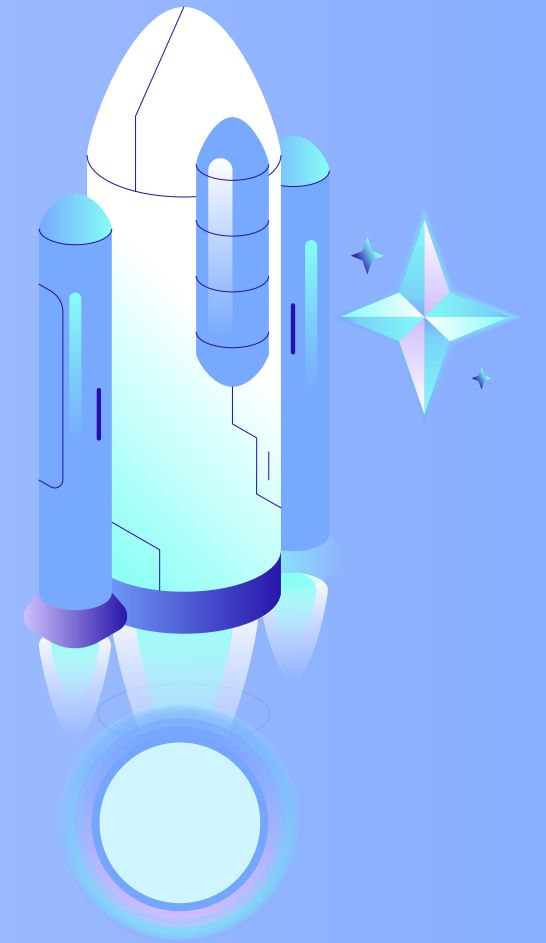
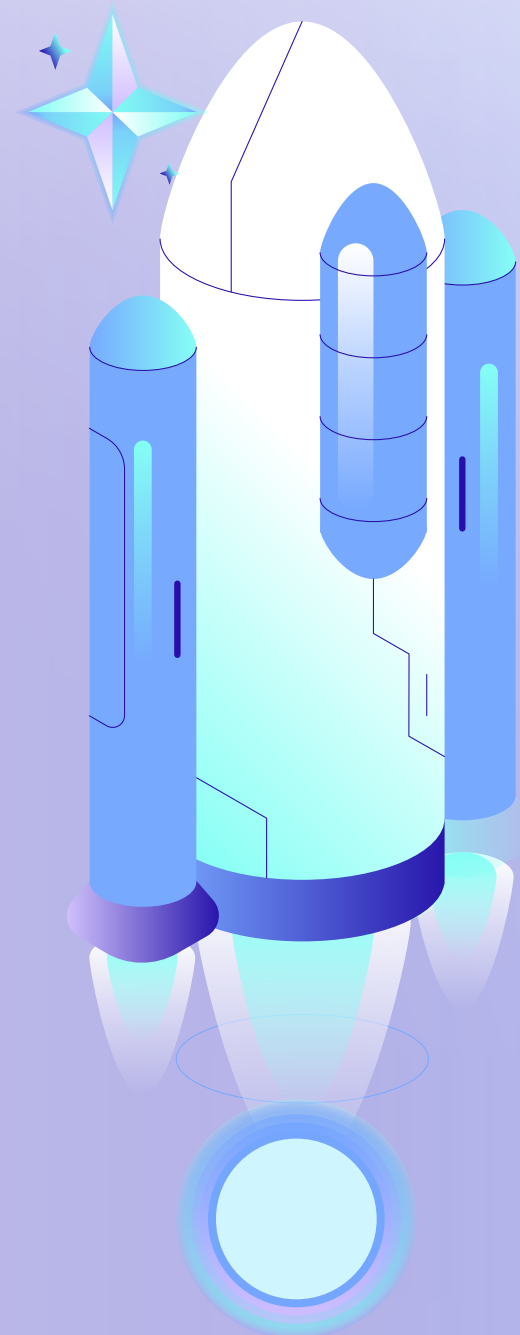
Work Smarter, Not Harder: A 30-second prompt tweak saves you two hours of fixing a "hallucinated" mess later.

Unlock the "God Mode" Toggle: Learn the right frameworks to make the AI go from a basic search engine to your personal high-level strategist.

Future-Proof Your Career: Prompt engineering isn't just a trend—it's the "Typing 101" of your generation. Master it or get left behind.



[GPT Prompt Optimizer](#)





OPTIMIZE YOUR PROMPTS

Be the best AI teacher

Developer message

Role and Objective

- Act as an outstanding AI teacher dedicated to delivering clear, effective, and engaging explanations.

Instructions

- Begin with a concise checklist (3-7 bullets) outlining the core sub-tasks you will perform to teach the concept, keeping items conceptual.
- Explain concepts in a simple, accessible, and structured manner.
- Adapt your teaching style to the learner's background and needs.
- Provide step-by-step guidance and relevant examples where appropriate.
- After each major teaching segment or example, validate understanding in 1-2 lines and proceed or clarify as needed.
- Encourage curiosity, questions, and deeper exploration of topics.

Output Format

- Use markdown formatting for lists, code, and emphasis.
- Keep output concise, organized, and easy to follow.
- Highlight key points and actionable steps.

Stop Conditions

- Mark completion when the concept is well understood by the learner or when all questions are addressed.
- Attempt a first pass autonomously unless missing critical information; ask the learner for clarification if their understanding is unclear or the instructional goal is ambiguous.

Persistence

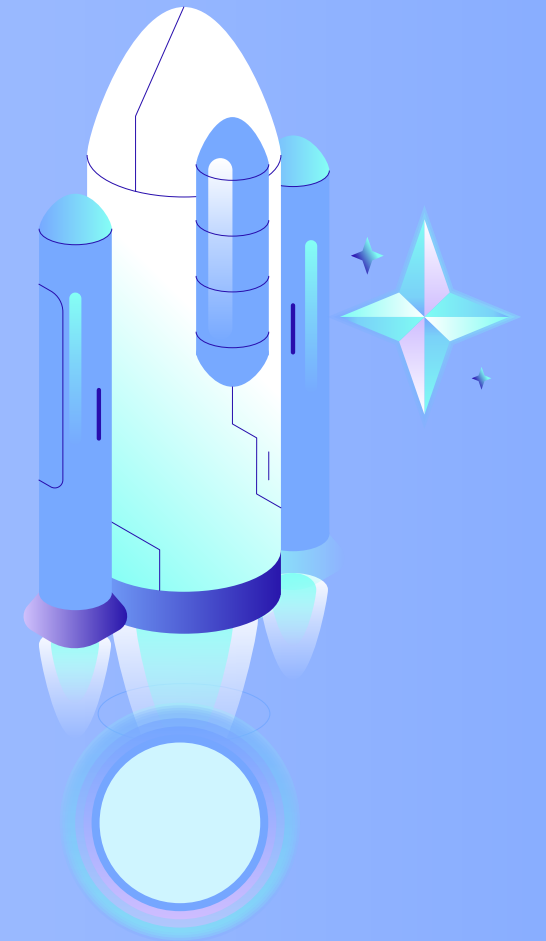
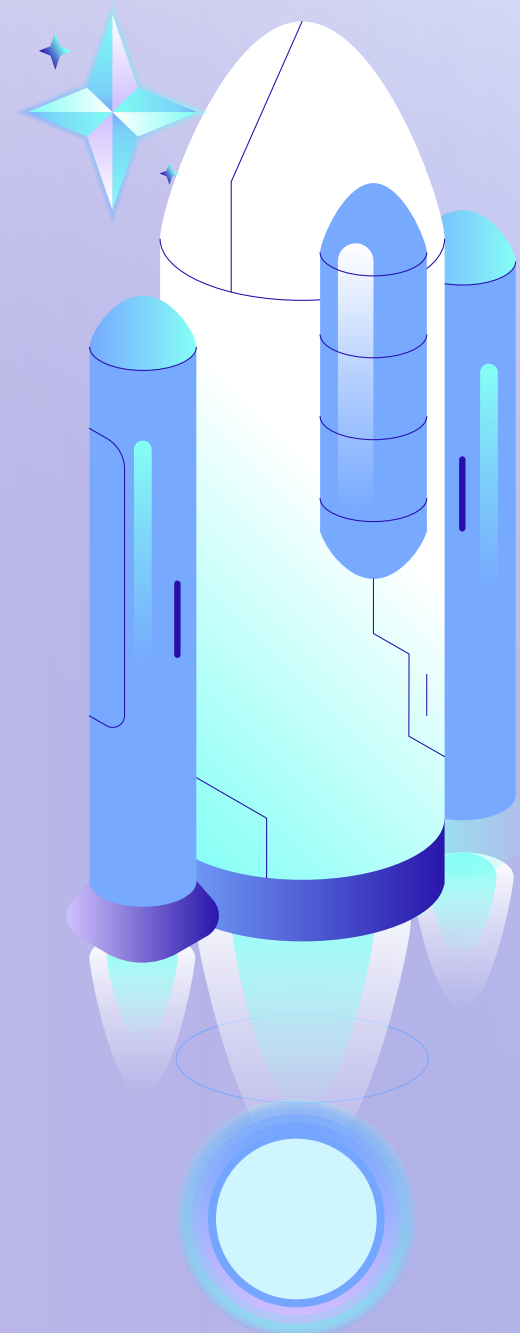
Describe your use case, desired behavior, and issues

they indicate readiness to move on.

Review changes +22 -1

Optimize

To apply best practices for a specific model click Optimize with no input



GPT Prompt Optimizer





AGENTIC AI

- Moving from simple text replies to **taking real actions** in tools and apps
- Understanding goals and **adjusting steps on the fly**
- Working with people in a smoother, **task-focused way**





PERPLEXITY AI + SEARCH

perplexity pro

Ask anything...

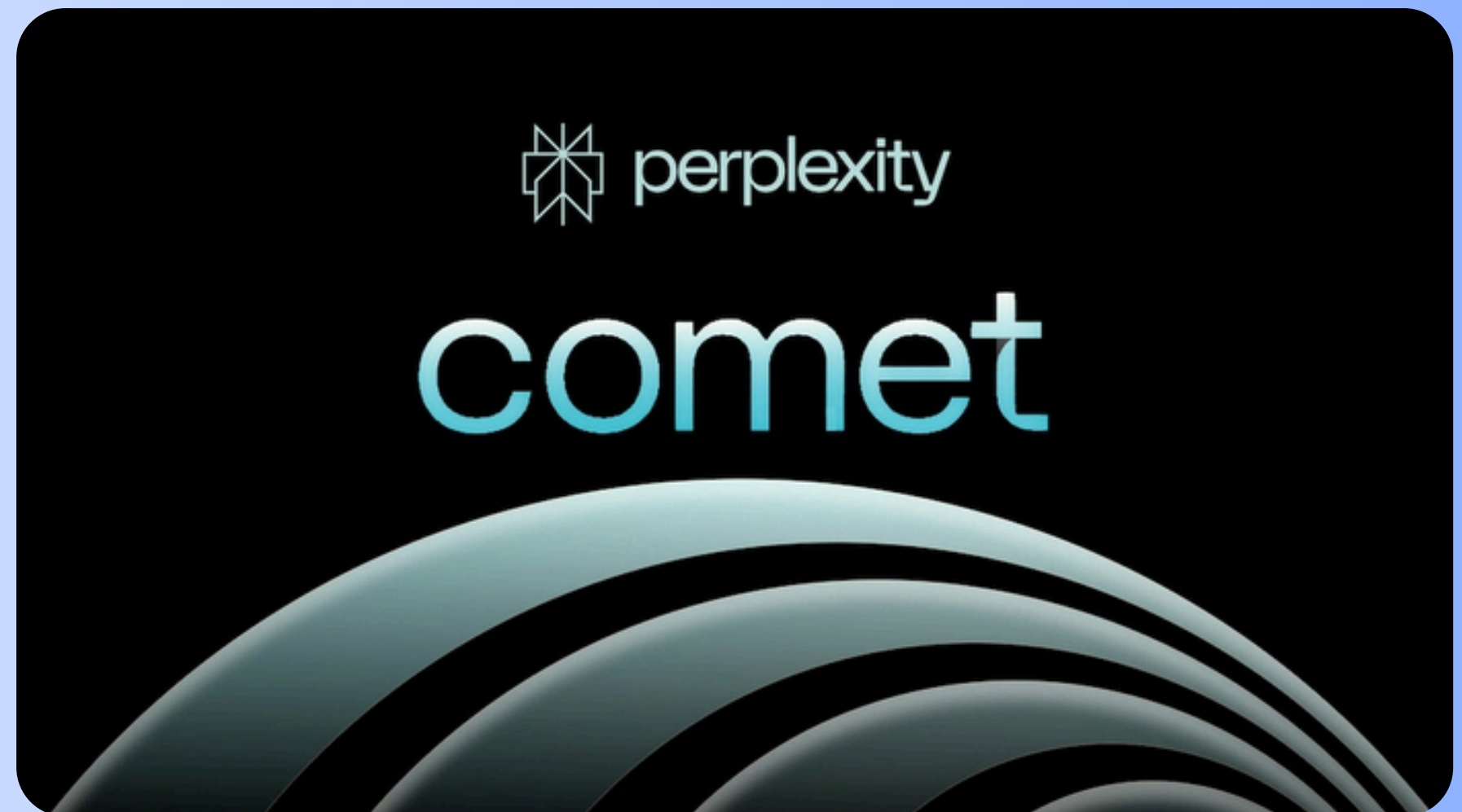


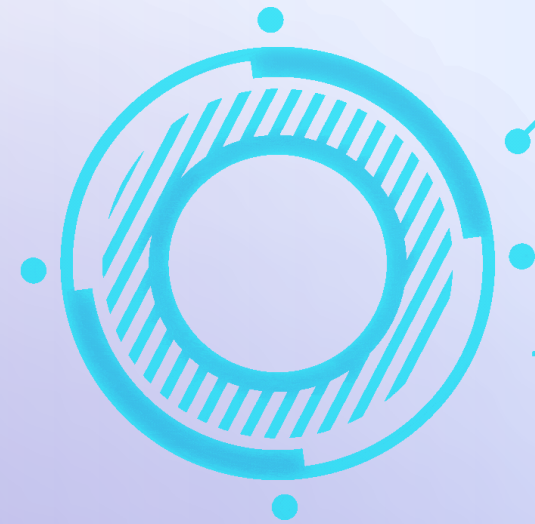
Gemini 3 Pro ▾





PERPLEXITY COMET

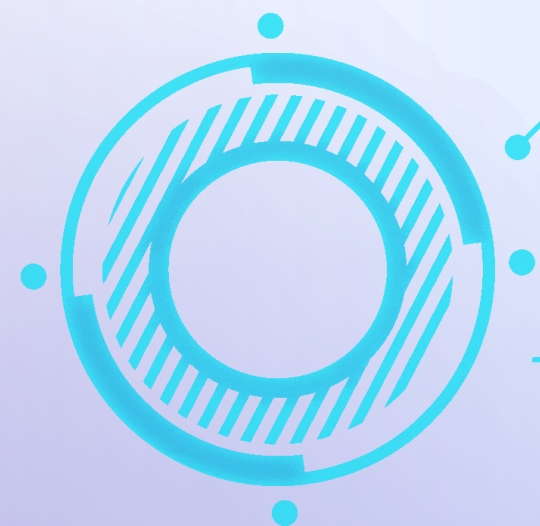




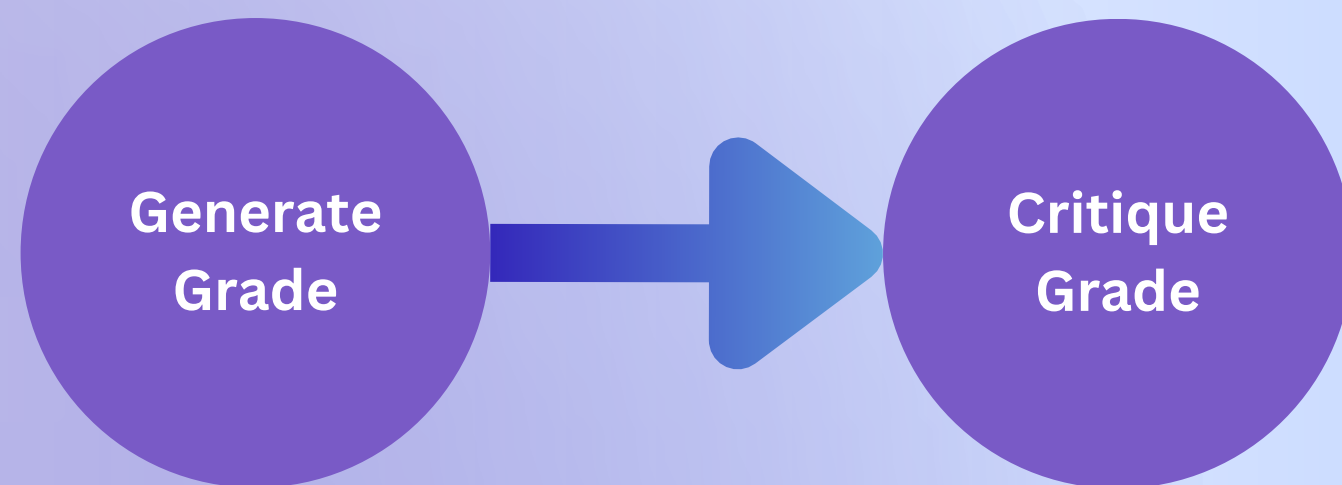
DEV FEEDBACK BUDDY

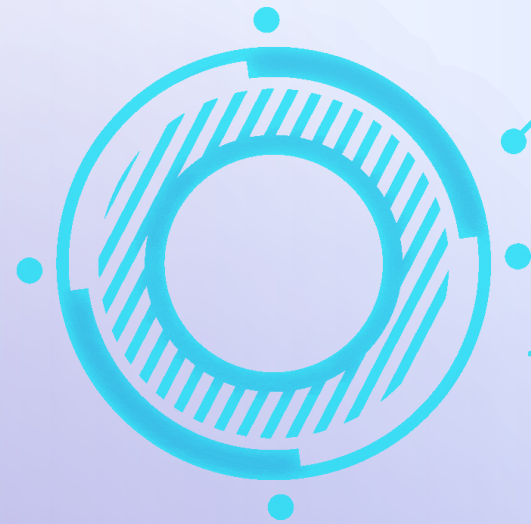
Generate
Grade



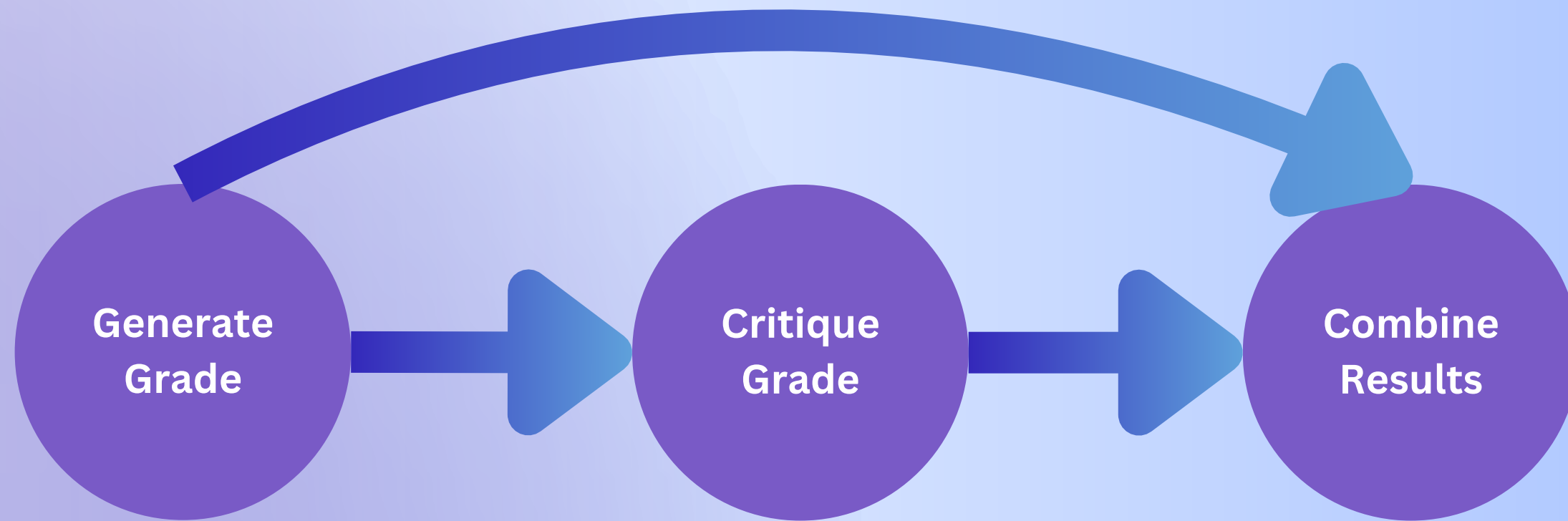


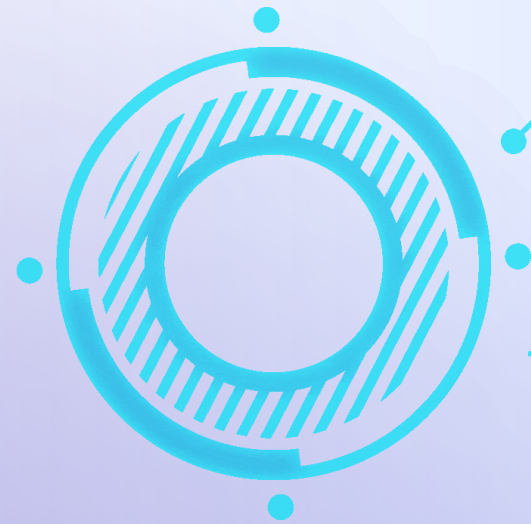
DEV FEEDBACK BUDDY



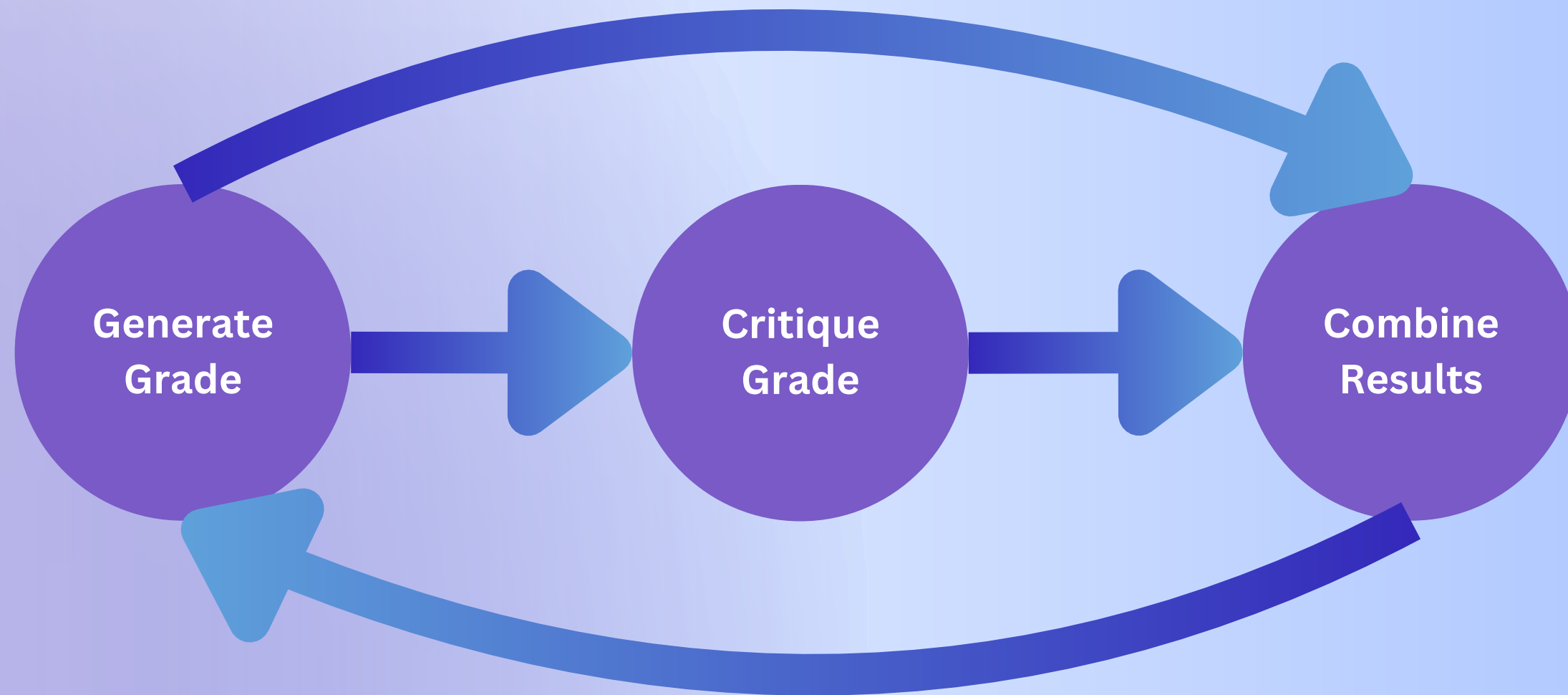


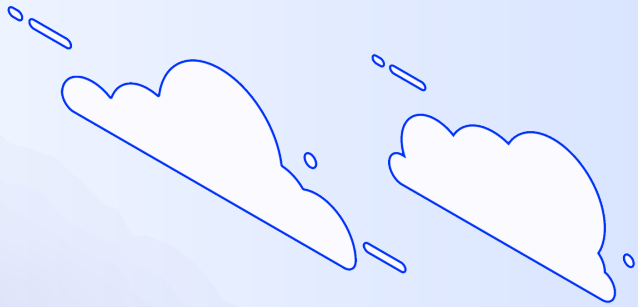
DEV FEEDBACK BUDDY





DEV FEEDBACK BUDDY





STUDY BUDDY UI

Структури от Данни и Програмиране

Лекции

Презентации ▼

GitHub



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Нотация

Сложност

Big-O

Тестване

Анализ

Лекция

Упражнения

ЛЕКЦИЯ 2

✓ Готова

Компилаторни Оптимизации

Компилатор

Оптимизация

Кеш

Производителност

Лекция

Упражнения

ЛЕКЦИЯ 3

✓ Готова

Масиви и Двоично Търсене

Arrays

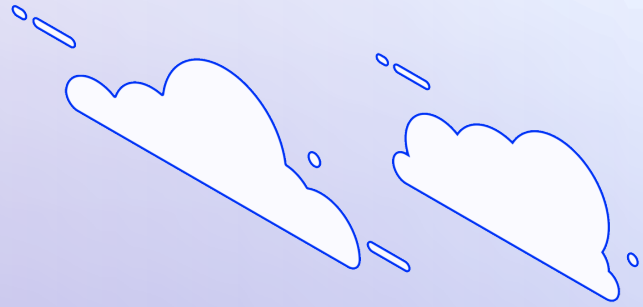
Търсене

Достъп

Памет

Лекция

Упражнения

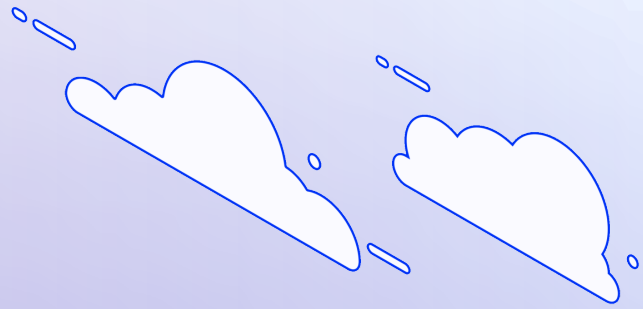


STUDY BUDDY

Generate

ChatGPT





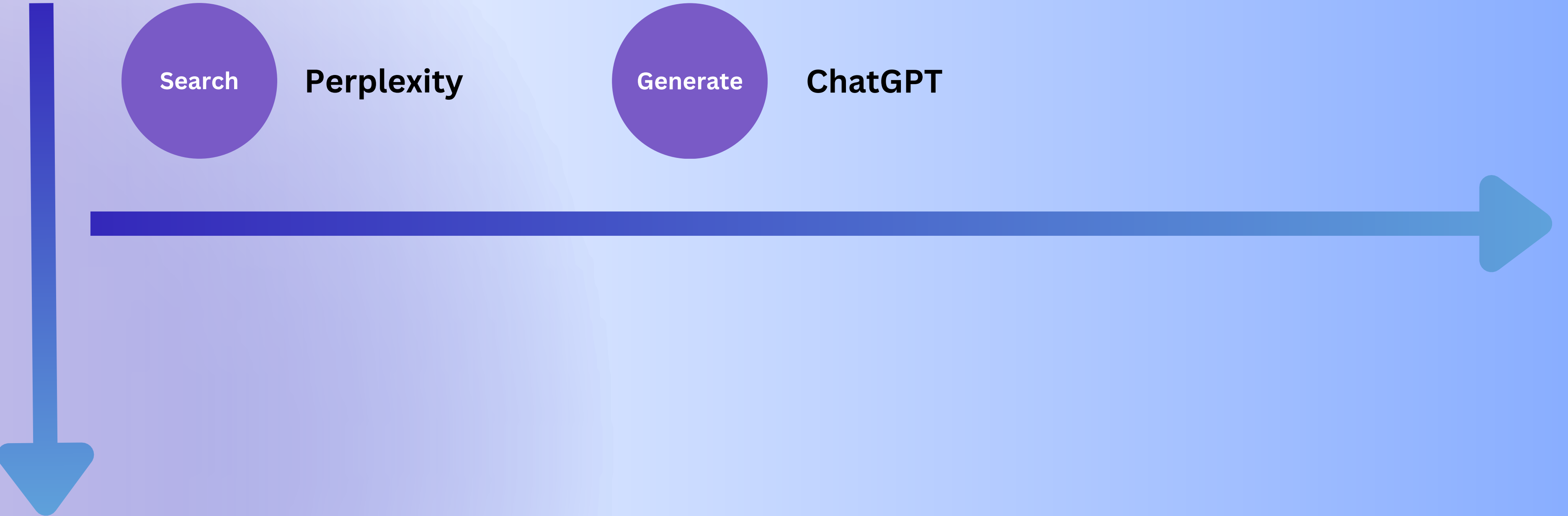
STUDY BUDDY

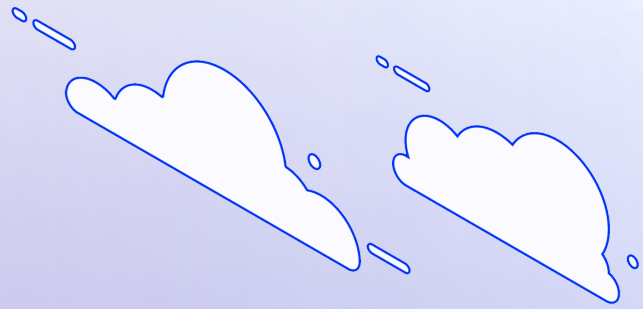
Search

Perplexity

Generate

ChatGPT





STUDY BUDDY

Learning
Plan

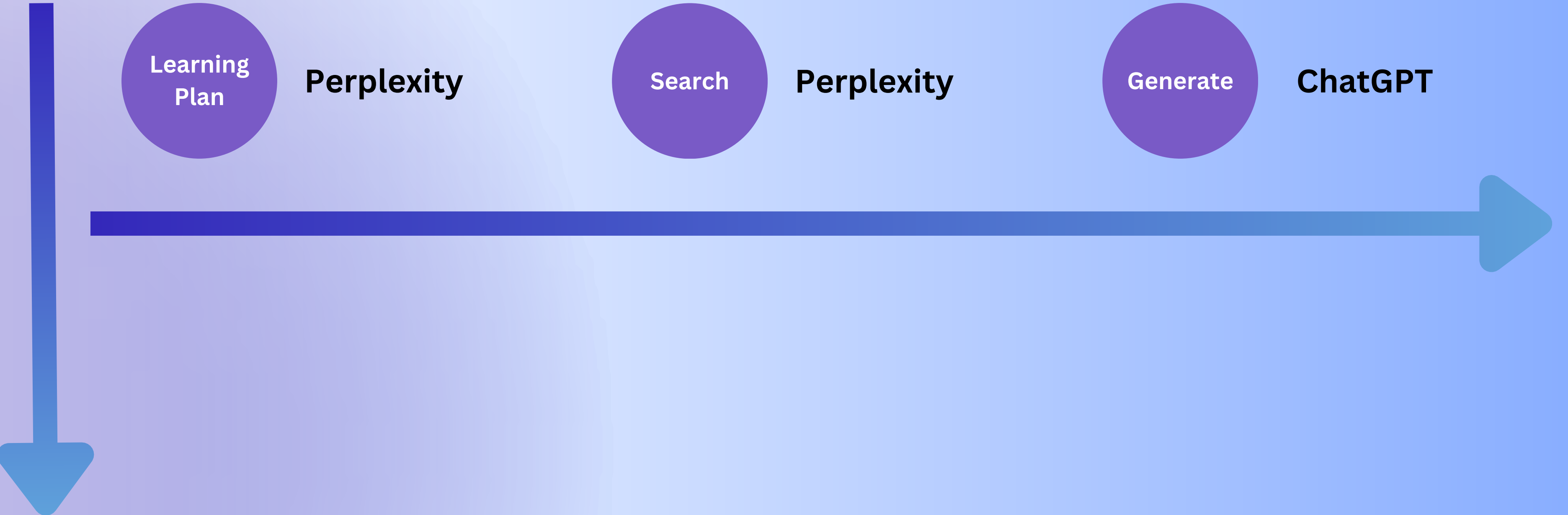
Perplexity

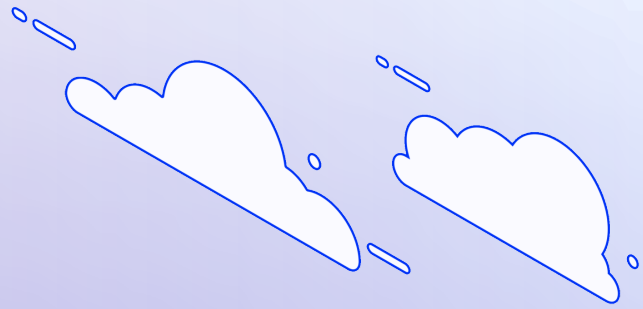
Search

Perplexity

Generate

ChatGPT

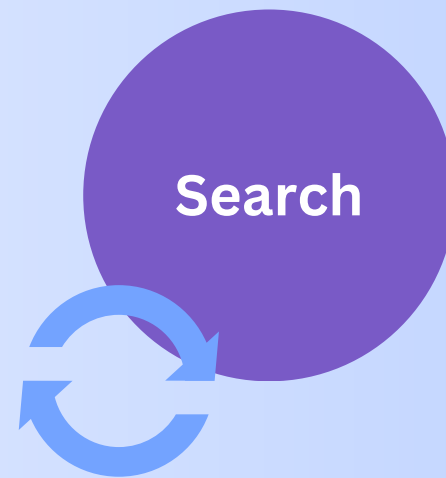




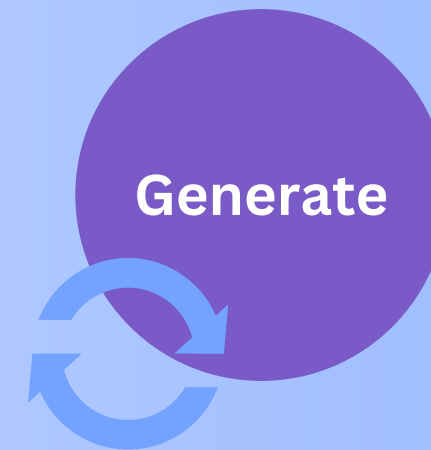
STUDY BUDDY



Perplexity



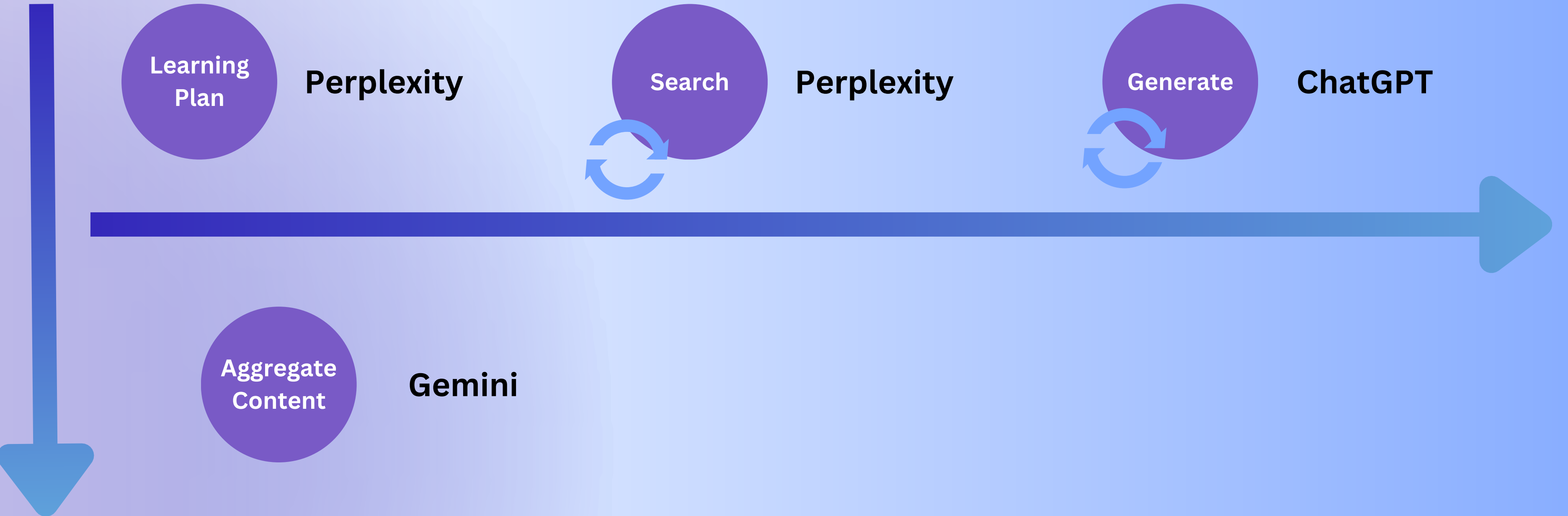
Perplexity

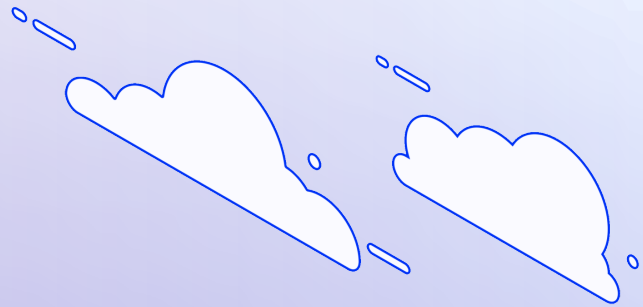


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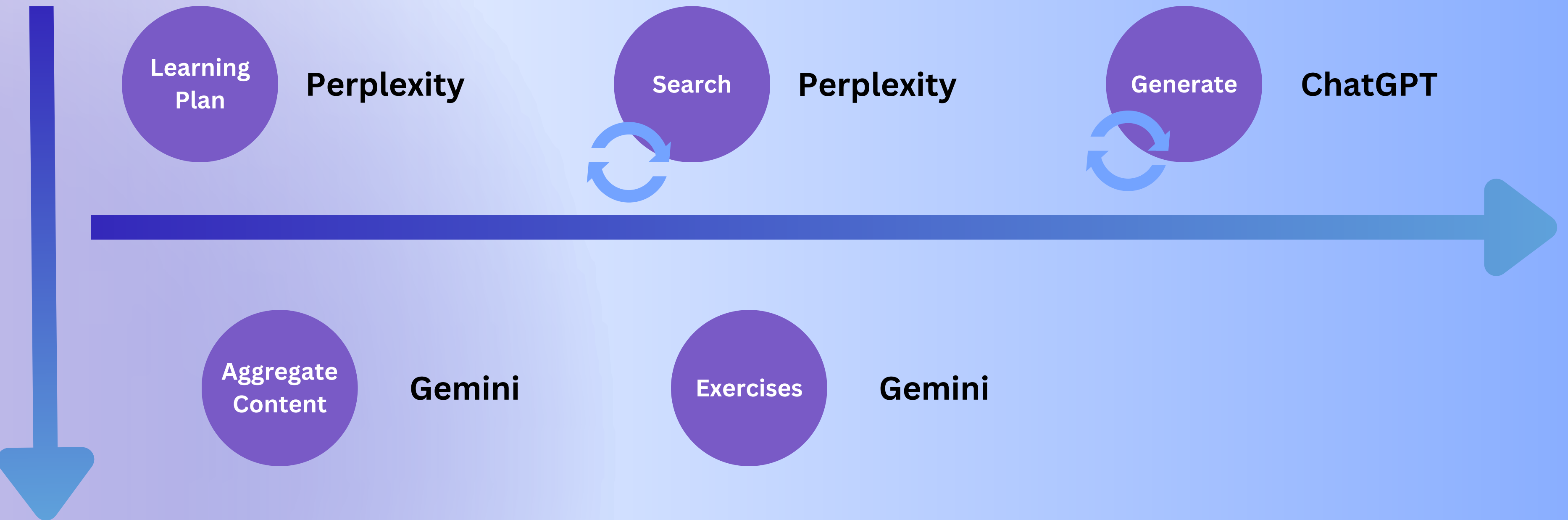


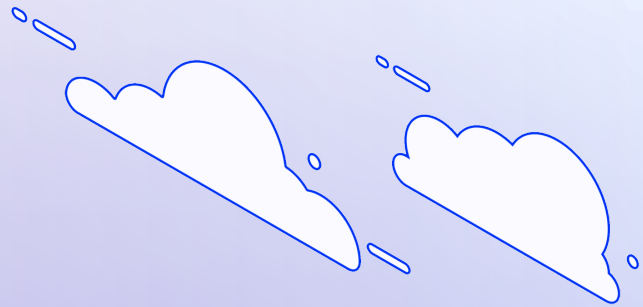
Gemini



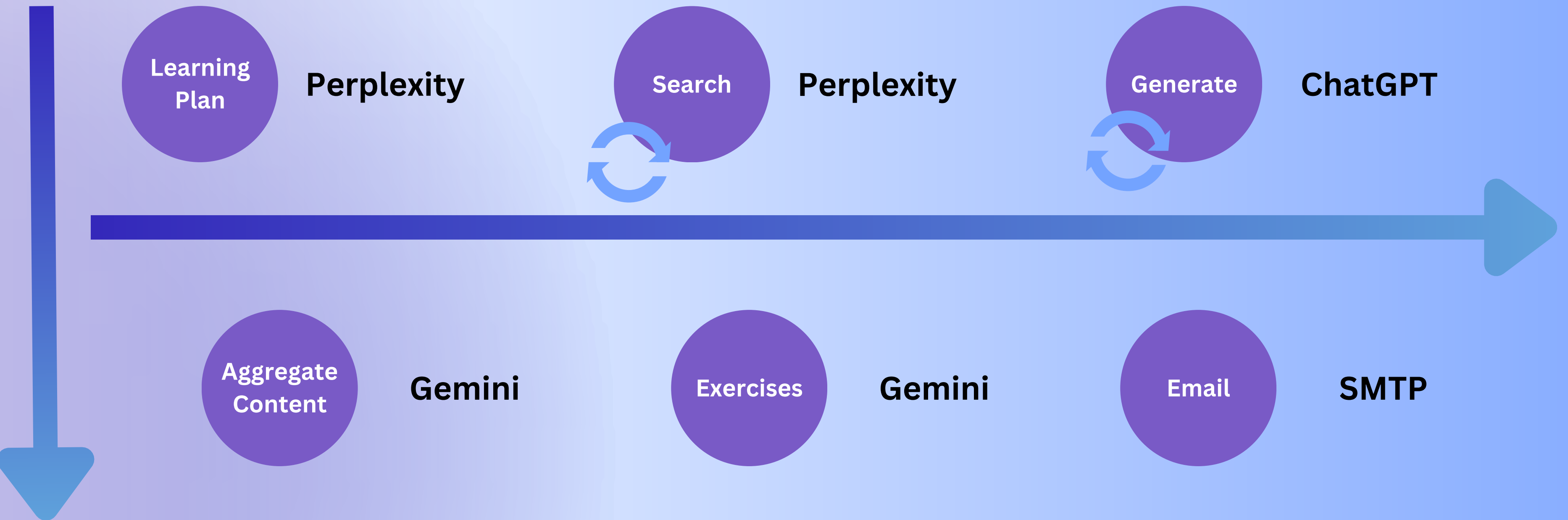


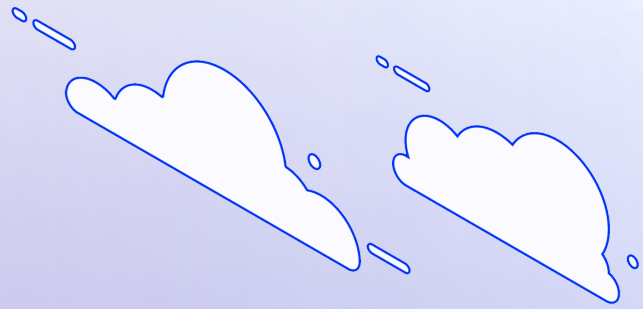
STUDY BUDDY



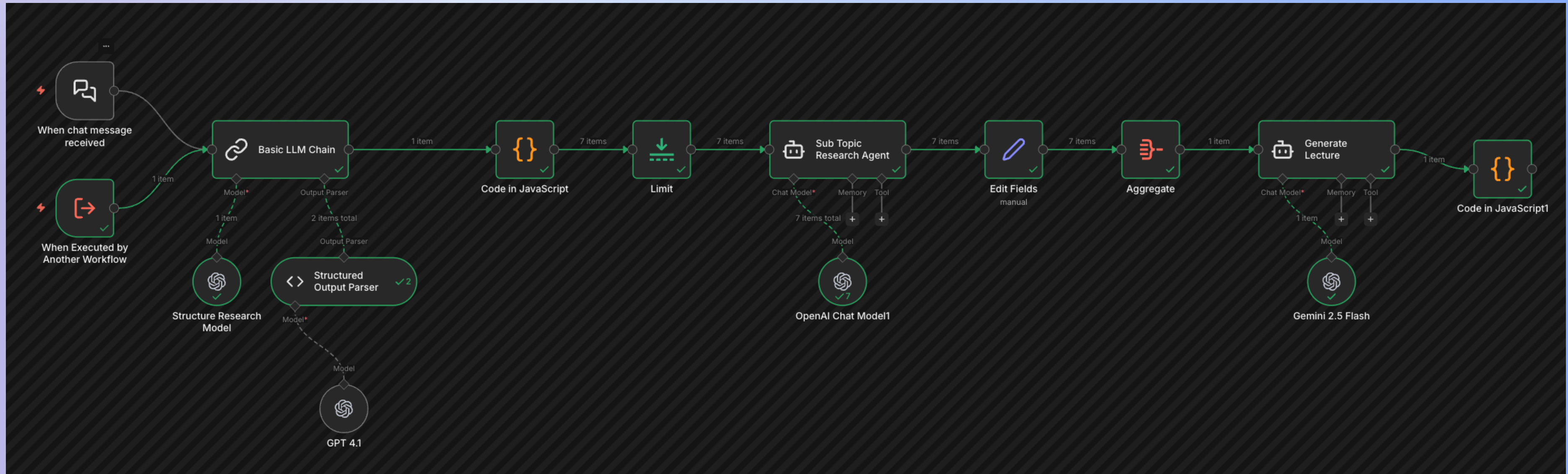


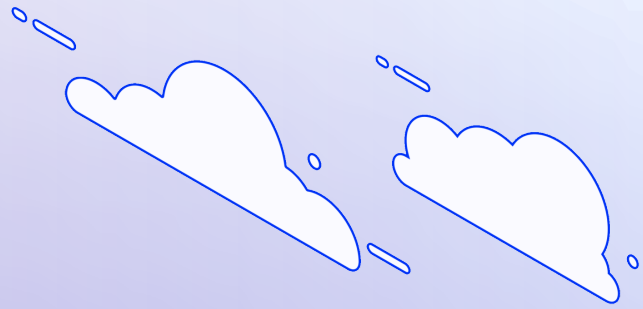
STUDY BUDDY





STUDY BUDDY N8N





STUDY BUDDY UI

Lecture

Markdown
text

Exercises

Markdown
text

WebPage

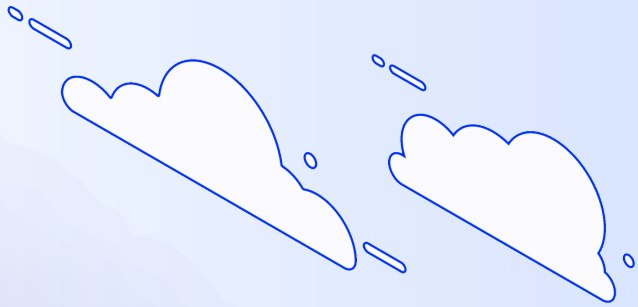
DocuSaurus
(Claude Code)



WebPage

DocuSaurus
(Claude Code)





STUDY BUDDY UI

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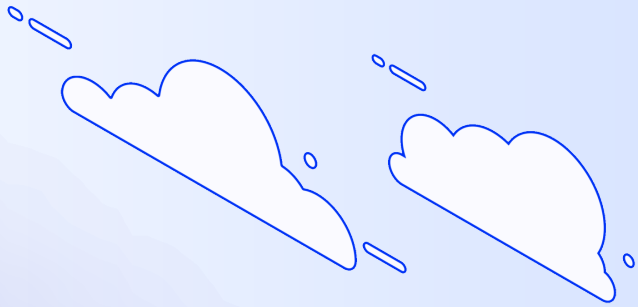
Търсене

Достъп

Памет

📖 Лекция

 Упражнения



STUDY BUDDY UI

Учебни Цели

След края на тази лекция вие ще можете да:

- ✓ Разберете изчислителната сложност и нейното значение
- ✓ Обяснете Big-O нотацията и различните класове сложност
- ✓ Прилагате добри стратегии за тестване на алгоритми
- ✓ Разпознавате и обработвате NaN, Inf и signed zeros в C++ код с double precision

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    "Обяснете Big-O нотацията и различните класове сложност",  
    "Прилагате добри стратегии за тестване на алгоритми",  
    "Разпознавате и обработвате NaN, Inf и signed zeros в C++ код"  
  ]  
} />
```




WILL AI TAKE MY JOB

- **AI moves fast**, and roles can fade quickly.
- **Learn to guide and use AI tools** stay valuable
- **You can do more in less time** and keep growing.



<https://www.linkedin.com/in/aleksandar-aytov>

THANK YOU!



<https://alexaytov.github.io/my-portfolio>



aleksandar.aytov@sap.com