



Google's Gemini 2.5 Cuts AI Costs by 600% with 'Thinking Budgets'

Description

Google has recently unveiled [Gemini 2.5 Flash](#), a significant enhancement to its AI platform, providing businesses and developers remarkable control over the model's cognitive capabilities. This new version, made available today for preview via [Google AI Studio](#) and [Vertex AI](#), aims to boost reasoning skills while remaining competitively priced in a saturated market.

A key feature of this model is the "[thinking budget](#)," which permits developers to set the computational resources allocated for complex reasoning before generating a response. This innovation addresses a crucial challenge in AI: the trade-off between sophisticated reasoning and increased latency and costs.

"Understanding the significance of cost and latency for developers, we are committed to providing the flexibility to adjust the model's cognitive processes," stated Tulsee Doshi, Google DeepMind's Product Director for Gemini Models, in an exclusive interview.

This flexibility highlights Google's pragmatic approach to AI, allowing businesses to enable or disable reasoning based on specific needs. This advancement, which they term their "first fully hybrid reasoning model," gives users unprecedented control over AI deployment.

Vocabulary List:

1. **Enhancement** /ɪn'hænsmənt/ (noun): An improvement or increase in quality value or extent.
2. **Cognitive** /'kɒgnɪtɪv/ (adjective): Relating to the processes of thought and understanding.
3. **Reasoning** /'riːzənɪŋ/ (noun): The action of thinking about something in a logical sensible way.
4. **Latency** /'leɪtənsi/ (noun): The delay before a transfer of data begins following an instruction for its transfer.
5. **Pragmatic** /præɡ'mætɪk/ (adjective): Dealing with things sensibly and realistically in a way that is based on practical rather than theoretical considerations.
6. **Deployment** /dɪ'plɔɪmənt/ (noun): The action of bringing resources into effective action.

Comprehension Questions

Multiple Choice



1. What is the name of the new AI platform enhancement recently unveiled by Google?
Option: A. Gemini 2.0 Flash
Option: B. Gemini 2.5 Burst
Option: C. Gemini 2.5 Flash
Option: D. Gemini 3.0 Spark

2. Where can developers preview the new Gemini 2.5 Flash version?
Option: A. Google Drive
Option: B. Google AI Studio
Option: C. Google Maps
Option: D. Google Play Store

3. What is the key feature of Gemini 2.5 Flash that allows developers to allocate computational resources?
Option: A. Computing Budget
Option: B. Cognitive Reserve
Option: C. Thinking Budget
Option: D. Intelligent Quota

4. Who is quoted as stating the significance of cost and latency for developers regarding Gemini 2.5 Flash?
Option: A. Sundar Pichai
Option: B. Larry Page
Option: C. Tulsee Doshi
Option: D. Eric Schmidt

5. What is one of the benefits of Gemini 2.5 Flash highlighted in the text?
Option: A. Increased Latency
Option: B. Reduced Reasoning Skills
Option: C. Greater Control Over AI Models
Option: D. High Costs

6. What is the term used by Google to describe Gemini 2.5 Flash as their innovation?
Option: A. Cognitive Revolution
Option: B. Hybrid Evolution
Option: C. Fully Automated Model
Option: D. First Fully Hybrid Reasoning Model

True-False



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7. Gemini 2.5 Flash was designed to reduce reasoning skills in AI models.
 8. The trade-off addressed by Gemini 2.5 Flash involves increased latency and costs in AI.
 9. According to the text, businesses can now disable reasoning in AI models based on their specific needs.
 10. Tulsee Doshi is the Product Director for Google DeepMind.
 11. Google AI Studio and Vertex AI are the only platforms where Gemini 2.5 Flash can be previewed.
 12. Gemini 2.5 Flash is the first fully hybrid reasoning model offered by Google.

Gap-Fill

14. The flexibility offered by Google in adjusting the model's cognitive processes highlights their pragmatic approach to _____.
15. Businesses now have the ability to enable or disable reasoning in AI models based on their specific _____.
16. The thinking budget feature of Gemini 2.5 Flash addresses the crucial challenge in AI: the trade-off between sophisticated reasoning and increased _____.
17. Gemini 2.5 Flash gives users unprecedented control over AI deployment as it is the _____ offered by Google.
18. Developers can preview Gemini 2.5 Flash via Google AI Studio and _____.

Answer

Multiple Choice: 1. C. Gemini 2.5 Flash 2. B. Google AI Studio 3. C. Thinking Budget 4. C. Tulsee Doshi 5. C. Greater Control Over AI Models 6. D. First Fully Hybrid Reasoning Model

True-False: 7. False 8. True 9. True 10. False 11. False 12. True

Gap-Fill: 14. AI 15. needs 16. latency 17. first fully hybrid reasoning model 18. Vertex AI



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What is a legally binding agreement between two parties?
Option: A) Purchase
Option: B) Contract
Option: C) Sale
Option: D) Offer
2. Which compounds can be found in various fruits and vegetables known for their antioxidant properties?
Option: A) Carbohydrates
Option: B) Polyphenols
Option: C) Proteins
Option: D) Fats
3. Which term refers to the introduction of new ideas methods or products?
Option: A) Replication
Option: B) Conservation
Option: C) Innovation
Option: D) Imitation
4. What measures the efficiency of production output?
Option: A) Profitability
Option: B) Productivity
Option: C) Quality
Option: D) Speed
5. Which term describes something that is absolutely necessary or extremely important?
Option: A) Optional
Option: B) Essential
Option: C) Luxurious
Option: D) Trivial
6. What means to act against or neutralize something?
Option: A) Enhance
Option: B) Improve
Option: C) Counteract
Option: D) Support
7. Which term refers to the distribution or positioning of resources and personnel?



- Option: A) Extraction
- Option: B) Deployment
- Option: C) Storage
- Option: D) Disposal

8. Which term is related to mental processes such as thinking learning and understanding?

- Option: A) Emotional
- Option: B) Cognitive
- Option: C) Physical
- Option: D) Spiritual

9. Which hormone is produced by the pineal gland and regulates sleep patterns?

- Option: A) Insulin
- Option: B) Estrogen
- Option: C) Melatonin
- Option: D) Serotonin

10. What term describes a deep mental involvement or absorption into an activity or experience?

- Option: A) Observation
- Option: B) Immersion
- Option: C) Distraction
- Option: D) Detachment

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

- 11. A _____ material is one that can withstand or recover from difficult conditions.
- 12. It is important to consume alcohol in _____ to avoid negative health effects.
- 13. The new software update offers several features for the _____ of user experience.
- 14. The two products are not _____ in terms of quality and performance.
- 15. After a long day at work I enjoy _____ by reading a book or listening to music.
- 16. In online gaming a high _____ can result in delays in player actions.
- 17. The study aims to investigate the _____ of historical events to current social issues.
- 18. GPS devices are widely used for accurate and efficient _____ during travel.



19. The performance of the team showcased their _____ over their opponents.
20. A _____ artist can work in various styles and mediums with equal proficiency.
21. Proper nutrition and rest are essential for muscle _____ after intense workouts.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

22. During the drought there was a severe shortage of water in the region.
23. The project proposal outlined a viable plan for sustainable energy production.
24. A diet rich in fruits and vegetables provides the body with essential antioxidants.
25. Regular exercise can help reduce inflammation in the body and improve overall health.
26. His pragmatic approach to problem-solving focused on practical solutions rather than theoretical concepts.
27. The software company developed an enterprise-grade solution for large-scale businesses.
28. The virtual reality game offered an immersive experience that made players feel like they were in another world.
29. The architect presented a new concept for the design of the city park.
30. His logical reasoning skills helped him analyze complex problems and reach sound conclusions.
31. The band experienced a resurgence in popularity after releasing their latest album.

Answer

Multiple Choice: 1. B) Contract 2. B) Polyphenols 3. C) Innovation 4. B) Productivity 5. B) Essential 6. C) Counteract 7. B) Deployment 8. B) Cognitive 9. C) Melatonin 10. B) Immersion

Gap-Fill: 11. resilient 12. moderation 13. enhancement 14. comparable 15. winding down 16. latency 17. relevance 18. navigation 19. dominance 20. versatile 21. recovery

Matching sentence: 1. Shortage 2. Viable 3. Antioxidants 4. Inflammation 5. Pragmatic 6. Enterprise-grade 7. Immersive 8. Concept 9. Reasoning 10. Resurgence

CATEGORY

1. Sci/Tech - LEVEL4



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