

DeepSeek-R1 release: Houston do we have a problem?

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CREATIVITY WITHIN EXCELLENCE



Focus

DeepSeek-R1 release: Houston, do we have a problem?

Understanding DeepSeek and Its Breakthrough

The recent release of DeepSeek-R1 has sent shockwaves through the Artificial Intelligence (AI) industry, raising fundamental questions about the trajectory of AI development and its competitive landscape. Prominent venture capitalist Marc Andreessen has likened this moment to AI's "Sputnik moment", a parallel to the Cold War technology race that redefined global power dynamics. This comparison underscores the magnitude of DeepSeek's announcement and the implications it is likely to have on the AI sector, particularly in the US.

The launch of a highly efficient, low-cost AI model by a Chinese research lab challenges conventional assumptions about AI's developmental trajectory, sparking discussions on technological supremacy, market stability, and future investments in AI. However, some controversy surrounds the training process, cost, and resource allocation of DeepSeek's model. Given these debates, it remains critical to exercise caution in assessing the full impact and consequences of this breakthrough.

Why Is This Announcement Important?

DeepSeek's breakthrough raises several pressing concerns. First, its claimed ability to train models at a much lower cost challenges the idea that advanced AI requires extensive computational resources. This paradigm shift could reshape the competitive field, potentially reducing the dominance of leading AI companies. Moreover, the announcement comes against a backdrop of increasing geopolitical tensions, where AI is seen as a strategic frontier in technological competition.

Adding to the anticipation, in the coming days, major technology companies will release their quarterly earnings. Analysts are likely to press them for comments on the DeepSeek model release and its impact on their AI strategies and capital expenditure (Capex) trajectory. Their responses could provide further insight into how this development is shaping industry-wide strategic decisions.

Market and Industry Implications

Shifting Dynamics in AI Development and Investment

Investors are now reassessing their expectations for AI infrastructure spending. If DeepSeek's approach proves scalable, companies that have invested heavily in computational power to train AI models may need to adjust their strategies. This shift could lead to a reallocation of capital, favoring more cost-effective AI solutions over sheer computing power. Additionally, one of the key impacts of this breakthrough is a likely shift in focus from Capex-heavy infrastructure investments back to Research and Development (R&D), as companies explore ways to optimize AI advancements with constrained technological resources.

At the same time, Jevons' Paradox suggests that greater efficiency does not necessarily lead to lower resource consumption, but rather stimulates higher demand. A relatively recent example is smartphones and mobile networks—as mobile data became more affordable with the transition from 3G to 4G and now 5G, consumers increased their use of streaming, gaming, and cloud-

based applications, leading to a surge in overall data consumption. Similarly, DeepSeek's cost-efficiency could accelerate AI adoption, leading to even greater computational demand, rather than a decline in infrastructure investment. This paradox highlights why the AI industry remains a valuable long-term investment theme despite temporary shifts in spending priorities.

Impact on the Broader Technology Sector

With AI serving as the backbone of many industries, the implications of this announcement go beyond just model training. Cloud computing providers and AI infrastructure companies may need to recalibrate their growth projections, as efficiency gains could alter demand patterns. Concurrently, AI-powered applications may see accelerated adoption, as reduced costs make advanced AI tools more accessible across industries.

Economic and Regulatory Considerations

The international answer to DeepSeek's breakthrough will be critical. Policymakers may take a two-pronged approach: deregulate the AI industry locally to boost competitiveness and innovation, while tightening cross-border AI governance and intellectual property protections. Given the controversy over how the DeepSeek model was trained, governments, particularly in the US, may seek to further restrict foreign access to AI advances while fostering domestic development. This evolving regulatory landscape could reshape global AI collaborations and influence future investment strategies.

Key Considerations Moving Forward

The uncertainty surrounding the impact of DeepSeek means that several key factors need to be closely monitored:

- The strategic response of leading AI research institutions and how they adjust their methodologies in light of cost-efficient alternatives.
- A possible rebalancing of spending between R&D and infrastructure spending.
- Regulatory actions that could affect the accessibility and deployment of AI technologies.
- Industry adoption trends, as companies assess the benefits of leveraging AI without heavy reliance on high-end computational resources.

Conclusion

DeepSeek's breakthrough represents a pivotal moment for artificial intelligence. Drawing parallels to AI's "Sputnik moment", it is clear that we are witnessing a profound shift in the industry. However, given the ongoing debates about how the model was trained, at what cost, and with what resources, it is crucial to remain cautious in evaluating its long-term consequences.

As we enter the Year of the Snake in China, this period is traditionally associated with wisdom and strategic adjustments. In many ways, 2025 could be the year of efficiency for the AI industry, marking a transition from massive infrastructure spending to more streamlined, cost-effective innovation. Investors, businesses, and policymakers will need to remain vigilant as they navigate this new chapter in technological advancement.

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Geneva

Headquarter CBH Bank
Bd Emile-Jaques-
Dalcroze 7
P.O. Box 1211 Geneva 3,
CH cbhbank.com
t +41 22 839 01 00

Zurich

Branch Office
CBH Bank
Bahnhofstrasse 82
P.O. Box 1213
8021 Zurich, CH
cbhbank.com
t +41 44 218 15 15

Luxembourg

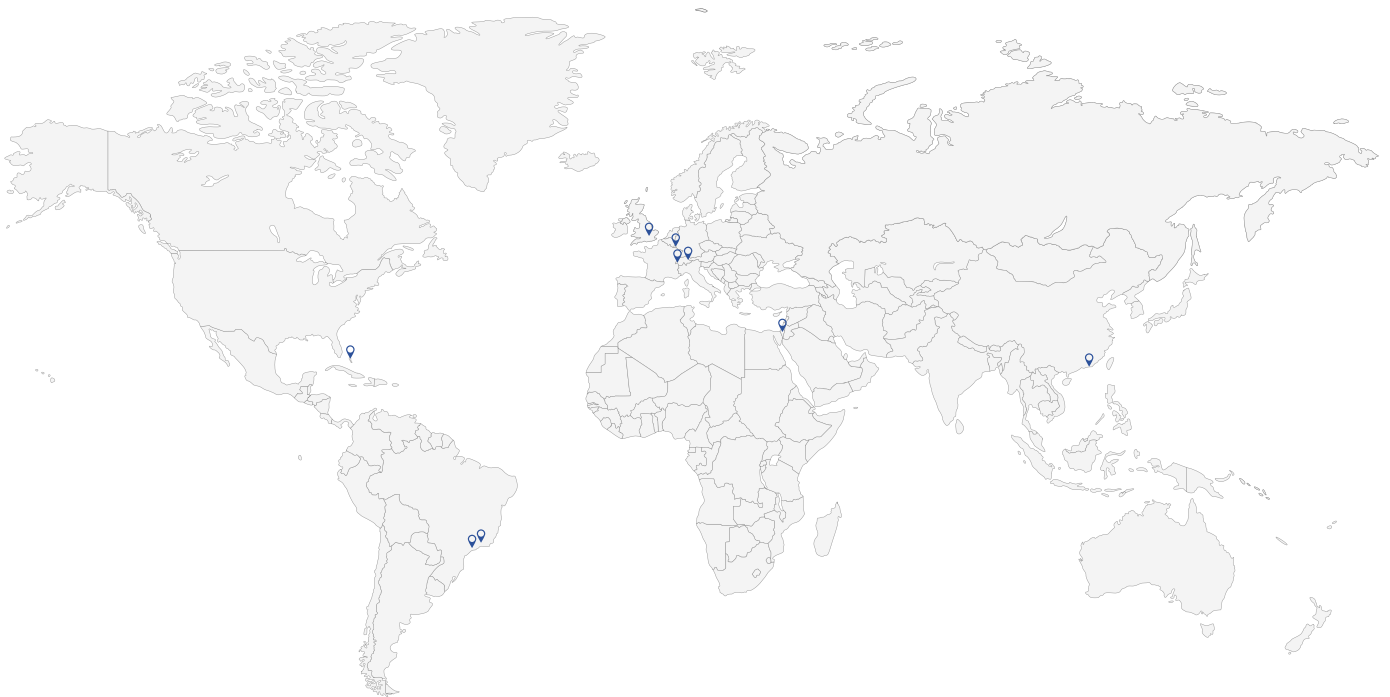
SICAV 1618
Investment Funds
106, route d'Arlon
L-8210 Mamer
Grand Duché de
Luxembourg
1618am.com

London

Subsidiary
CBH Wealth UK Limited
2-4 Cork Street, London
W1S 3LG, UK,
cbhbank.com t +44 207
647 1300

Hong Kong

Subsidiary CBH
Asia Limited
Suite 2001, 20th Floor,
K11 ATELIER, 18-24
Salisbury Road, Tsim Sha
Tsui, Kowloon, Hong
Kong, HK
cbhbank.com
t +852 2869 0801



Nassau

Subsidiary
CBH Bahamas Ltd.
CBH House, East Bay
Street
P.O. Box N-1724
Nassau, N.P., Bahamas
cbhbank.com
t +1 242 394 61 61

Rio de Janeiro

Subsidiary 1618
Investimentos
Av. Ataulfo de Paiva,
204 Salas 305 a 308
Leblon, Rio de Janeiro/
RJ
CEP: 22440-033, Brazil
1618investimentos.com
t +55 21 3993 6901

Sao Paulo

1618 Investimentos
Subsidiary
Rua Iguatemi, 192
Itaim Bibi, São Paulo -SP
CEP: 01451-010 Brazil
1618investimentos.com
t +55 11 4550 4401

Tel Aviv

Representative Office
CBH Bank
Rehov Tuval 40
Ramat Gan 5252247
Israel
cbhbank.com
t +972 73 793 62 22

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CBH | Compagnie Bancaire Helvétique

Asset Management
Boulevard Emile-Jaques-Dalcroze 7
P.O.Box
CH - 1211 Geneva 3

am@cbhbank.com
www.cbhbank.com