

Searching for the Economy's Indicator like GDP Private Cars & High-Tech Artificial Intelligence Products on Post-doctoral Researchers Sustainably

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Abstract

The high-tech product like medicine & stock-price change may affect our daily behavior and judgment known how to deal with it affords us to have the higher health status and more capital derivation which may help us to judge more thoughts on health status and capital income additionally. Herein we should think about more acknowledging know-how to those high-tech products brought us more beneficial relevance. Moreover when we got enough knowledge and experience to make a big fight with utilizing the stock market much money is about to flow into our pocket early or lately. So that we must prepare to grasp the entire tendency of financial market and individual stocks with many times' short-term transaction to triumph the more happiness of better life conditions and more money constantly. Moreover, the one country GDP(gross domestic product) will reflect that country economy status level whose destination indicates us the digital economic development criteria for our scientist to compare and analyze within a certain scope of field so its importance will be huge and many aspects at all. We should keep up with the timely developed steps done what we may walk route for the sake of creating accordingly contribution and endeavour. Here the details analyze will process in light of regional GDP, private car & artificial intelligence etc..

Keywords: search; economy; high-tech; private car; GDP; artificial intelligence; post-doctoral; researcher; sustainably

1. Introduction

In the latest with the exhibiting high-tech products and machines we could enjoy the advanced equipment brought us much happiness and comfort, so we should appreciate the scientists who brought many successful achievements out. The medicine can give us healthy body while the artificial intelligence product like from Open AI, Crok-3 & Deepseek. [6] Herein the new AI reformation will be prevailing in China and America in terms of searching the latest tendency in Tencent News where Sam Altman, Elon Musk, Yuhuan Wu, Wenfeng Liang has become president. Yuhuan Wu as a union initiator of x-AI joined the Crok-3 research and development who has graduated from University of Toronto, artificial intelligence department and obtained his PhD in 2021. [7] Recently the Deepseek R3 joins the WPS word official system to help completing writing diagram which will promote the word development. On the other hand many China scientists completed his research and turns back motherland so as to develop its research and education task who could combine the research content overseas with China one carried up the research and education enterprise largely.

The GDP will reflect one country economy situation level where the potential power is speculated in light of GDP. Herein the emphasis on it may enhance its improvement continuously through utilizing each aspect endeavor. We should firstly utilize scientist and experts to analyse the whole status with erecting corresponding modelling and cause the correct results for us to have the brain and direct. Thus many conveniences may be afforded in advance as many as possible so that the accessibility route may be obtained and find the main one and inferior one for our processors to pursue and labour constantly. [1~5]

2.1 Chinese provincial & some Asian four small dragons GDP comparison

In light of the National Statistics Bureau & World Banks the Guangdong provincial [1], HK & Singapore will complete the 19, 30 & 18 billion dollars GDP general value in 1983 accordingly and the y-o-y value with 10%, -6.6% & 12% respectively shown in Table 1, which exhibited the highest y-o-y value of 12% would form in Singapore while the HK remained the second speed with -6.6% in the same year. On

the other side Korea(Rep) could maintain higher 13% increase rate in 1983.

Table 1. The Chinese province & some Asian four small dragon GDP ranking, billion dollars(units).

Years	Guangdong	Taiwan	HK	Singapore	Korea(Rep)
1981	17	71	30	13	71
1982	17	68	32	16	78
1983	19	70	30	18	89
Y-o-y	10%	2.8%	-6.6%	12%	14%

2.2 Private cars amount recently

The China private cars amount had indicated 22.8, 22.2, 17.6 million in Shandong, Guangdong, Jiangsu province respectively shown in Table 2 in light of the National Statistics Bureau while its y-o-y provides 4.8%~4.5% in the same year, which explains that higher private cars had been owned in these three provinces i.e about half families had had his cars. [2]

Table 2. The China private car numbers, million (units).

Years	Shandong	Guangdong	Jiangsu
2019	21.7	21.0	16.8
2020	22.8	22.2	17.6
Y-o-y	4.8%	5.4%	4.5%

The Henan, Hebei, Zhejiang had had the 15.3, 15.5, 15.1 million ones while the y-o-y of them afforded 6.1%~4.4% in 2020 which means also that the half families has their car shown in Table 3. [2]

Table 3. The China private car numbers I, million (units).

Years	Henan	Hebei	Zhejiang
2019	15.3	15.5	15.1
2020	16.3	16.2	15.8
Y-o-y	6.1%	4.3%	4.4%

The 17.2, 16.8, 16.8 million ones had been had in Henan, Hebei, Zhejiang province respectively while their y-o-y attained 11%~9.5% which expressed near half of families had their car in light of Table 4 data. [2]

Table 4. The China private car numbers II, million (units).

Years	Henan	Hebei	Zhejiang
2017	15.3	15.5	15.1
2021	17.2	16.8	16.7
y-o-y	11%	7.7%	9.5%

2.3 The 2024 Auto brand exportation sale

The China five Auto brand shows that exportation rate ranking would be 71%~21% in light of Figure 1 in 2024. Therein the BYD has recorded the highest value, then Geely, Changan, Greawall, Chery in turns in terms of China Auto Industry association. [8] In 2024 China Auto industry had shown that the strong development toughness and activity, high-quality development promotion firmly became one of the economy increase force. In the same year China exportation Auto provided 585.9 million with y-o-y 19.3% where the BYD became the exportation biggest one with 43.3 hundred thousand and realize the biggest increase rate.

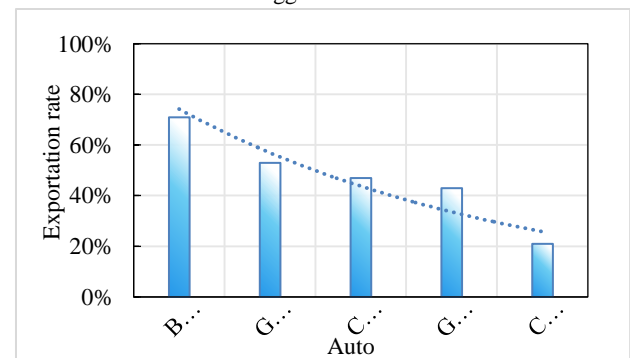


Figure 1 The 2024 China Auto brand exportation rate.

2.4 The Japan, Taiwan & China provincial GDP statistics.

In light of the National Statistics Bureau and the World Bank, in 2012~2013 the Japan, Taiwan & Jiangsu, Zhejiang provincial GDP had indicated 36,500~3,560 billion yuan exhibited in Table 5 in 2012 where the y-o-y provided -20%~10% at the same time. [3] That expresses that the Jiangsu and Zhejiang maintained high speed increasingly while the Japan still afforded the minus increase.

Table 5. The Japan, Taiwan & Jiangsu, Zhejiang GDP list in 2012 and 2013, billion yuan.

Years	Japan	Taiwan	Jiangsu	Zhejiang
2012	36,500	3,156	5,605	3,560
2013	30,270	3,245	6,435	3,979
y-o-y	-20%	2.7%	13%	10%

In light of the National Statistics Bureau and the World Bank, in 1997~1998 the Japan, Taiwan & Jiangsu, Zhejiang provincial GDP had indicated 37,998~765 billion yuan exhibited in Table 6 in 1998 where the y-o-y provided 9.2%~7.1% at the same time. [3] That expresses that the Japan and Guangdong maintained high speed increasingly while the Taiwan still afforded the lower 5.4% increase rate.

Table 6. The Japan, Taiwan & Shandong, Guangdong, Jiangsu GDP list in 1997 and 1998 I, billion yuan. [3]

Year	Japan	Taiwan	Shandong	Guangdong	Jiangsu
1997	37,998	765	5,605	3,560	3,979
1998	30,270	3,245	6,435	3,979	3,560
y-o-y	-20%	2.7%	13%	10%	10%

1997	34,500	2,323	693	841	710
1998	37,998	2,457	745	922	765
y-o-y	9.2%	5.4%	6.9%	8.7%	7.1%

2.5 The Korea & China cities GDP ranking

In light of the Planet data the Korean & Chinese cities like Seoul, Gyeonggi, Qingdao and Yantai city whose GDP in 2009 and 2017 provided 17,040~388 billion yuan and 24,850~698 billion yuan had attained 4.4%~10% and 3.5%~4.6% y-o-y value at that time accordingly. [4] Herein that means that the Chinese two cities still maintains higher increase rate than the Korean cities in general. Meanwhile the Qingdao city had provided beyond one thousand billion yuan big task from 2016 to 2017 while the Seoul and Gyeonggi one attained more than 20 thousand billion yuan at the same time in terms of Table 7.

Table 7. The Korean & China Shandong provincial cities GDP list in 2008~2017, billion yuan. [4]

Years	Seoul	Gyeonggi	Gyeongnam	Gyeongsangbuk	Qingdao	Yantai
2008	17,738	1,4500	508	470	422	346
2009	17,040	14,800	494	468	494	388
y-o-y	4.4%	2%	-2.8%	-0.4%	14%	10%
2016	23,960	26,640	653	-	1,006	673
2017	24,850	27,960	660	655	1,055	698
y-o-y	3.5%	4.7%	1%	-	4.6%	3.5%

2.6 The generative artificial intelligence: the innovation engine of a smart future

The generative AI as an innovative technique has been prevailing more and more recently so the relevant meaning and content must think about carefully. Herein, the artificial intelligence product like from Open AI, GPT-3 & Deepseek may be changing our life and style day by day. For the sake of progressing our according capability to deal with that new thing we may gradually access it with different ways with synchronization. Now we analyse that subject as following respects.

1. In today's ever-changing science and technology, generative AI is leading an unprecedented intelligent revolution with its unique charm and unlimited potential.

As an artificial intelligence technology that can automatically generate text, images, audio and other types of data, generative AI not only shows great application value in the creative industry, but also plays an irreplaceable role in many fields such as scientific research, education, and medical care.

2. The core of generative AI lies in its powerful learning and generative ability. Through advanced technologies such as deep learning, it is able to understand and mimic the human creative process to produce high-quality, creative content. In the field of literary creation, generative AI is already able to create amazing poems, novels, and screenplays, providing writers with a whole new source of inspiration. In terms of artistic design, it is able to generate unique patterns, textures and images, broadening the creative boundaries for designers.

3. Beyond the creative industries, generative AI also plays an important role in scientific research. It can predict future trends and changes based on existing data and information, and provide powerful decision support for scientists. In the field of education, generative AI can tailor personalized learning plans and teaching resources to students according to their learning situation and interests, so as to improve learning effectiveness and interest. [5]

4. However, the development of generative AI also faces many challenges and controversies. On the one hand, how to ensure the authenticity and credibility of the generated content and avoid the spread and misdirection of false information is an urgent problem to be solved. On the other hand, with the continuous development and popularization of generative AI technology, how to protect intellectual property rights and personal privacy, and prevent malicious attacks and abuse has also become an important issue.

5. Nevertheless, there is still reason to believe that generative AI will become an important cornerstone of the intelligent society of the future. It will continue to promote scientific and technological innovation and industrial upgrading to create a better life for mankind. At the same time, we also need to strengthen supervision and norms to ensure the healthy development and rational use of generative AI technology. Only in this way can we truly usher in a smart future full of wisdom and creativity.

2.7 The 2023 Bank construction's evaluative results exhibition

In the 2023 end the results exhibition of Bank construction evaluation would express as Table 8 where the low scale presents high security and the high one is low security. The high scale banks have recorded as VIII~X with 125~70 units which is regarded as highly risk bank. The most scale would have 162 units with IX scale occupied 4% rate. [11]

Table 8. In 2023 end the results exhibition of Bank construction evaluation.

Scale Type	I	II	III	IV	V	VI	VII	VIII	IX	X
Units No.	1	39	241	555	1,143	1,049	551	125	162	70
Occupied rate, %	0.1	1	5	12	27	26	14	3	4	2

3. Conclusions

The high-tech product would be produced under a certain theoretic background and experiment base through scientists endeavour in advance, thus the making technique could form so as to realize commercialization. Herein the more sophisticated function like voice, video & toughness etc. is going to finish realization. The high-tech product like medicine & stock-price change may affect our daily behavior and judgment known how to deal with it affords us to have the higher health status and more capital derivation which may help us to judge more thoughts on health status and capital income additionally. Herein we should think about more acknowledging know-how to those high-tech products brought us more beneficial relevance. Moreover when we got enough knowledge and experience to make a big fight with utilizing the stock market much money is about to flow into our pocket early or lately. So that we must prepare to grasp the entire tendency of financial market and individual stocks

with many times' short-term transaction to triumph the more happiness of better life conditions and more money constantly. Eventually with high-tech product going into our life the artificial intelligence ones will occupy more and more spending, time & space of our daily life.

References

1. Tencent News, Feb. 7th, 2025, Internet
2. Tencent News, Feb. 3th, 2025, Internet
3. Japan & Chinese province GDP, Tencent News, Feb. 3th, 2025, Internet
4. Korea does & Chinese cities' GDP, Tencent News, Feb. 1st, 2025, Internet
5. Generative AI, Deepseek, Internet
6. Tencent News, Feb. 17th 2025, Internet
7. Yuhuan Wu, Baidu, Internet
8. Tencent News, Jan. 19th 2025, Internet