

Research on the Neural Network Model Forecast of Biden Administration's China Policy

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ABSTRACT

The direction of Sino-US relations not only affects the fundamental interests of the two peoples but also has an important impact on world peace and stability. In this paper, by studying a series of policies and systems respected by the Democratic Party represented by Biden, and applying the neural network model to analyze its policies, further analyze the influence of the Biden administration on the Biden Administration's Impact on China's Economy, propose corresponding strategies on financial and trade, immigration, capital markets, environmental protection, and military issues.

Keywords: Neural network model, Economic impact, Forecast, Coping strategy.

1. INTRODUCTION

The US head of the senatorial election, the world's thinking will be focussed. Months of frantic election campaigns, \$13.9 billion in campaign expenses. On January 21, 2021, the 46th head of state of the in a treaty country, Biden, officially promote awareness of his investiture, which also method that the Biden age has officially begun. After the new administration led by Biden came to power, the two parties were faced with a situation of severe antagonism between the two parties, severe ethnic polarization, and out of control of the original coronet epidemic. What it took over was a financial system that was on the brink of a large depression. After charming office, the new administration will first control the epidemic. By reduce the unpredictability of the fair and formulating a relatively free financial procedure, it will go backward to the cost of various property, especially the stock fair, and promote the recovery of the U.S. financial system, but it may cause the U.S. financial surroundings. The financial risks have raised. In this consideration, China should reward particular thinking and adopt a strategy of static braking. First, watch the various procedures propel by the new administration after charming office and assess personal likely effect, and on this basis, study and magistrate the response. This article selects the

financial and commercial, employment, ecological safety, immigration, and other aspects for consideration. Give financial countermeasures and suggestions for relating fields in China.

2. MODEL

The standard neural network model is composed of three neurons[1], the lowermost layer is the input layer, the middle is the hidden layer, and the uppermost layer is the output layer. The ideal output is recorded as, which is:

$$E(W) = \frac{1}{2} \sum_{i,s} (T_i^s - O_i^s)^2 \tag{1}$$

Find a set of problems with appropriate heaviness, find the appropriate value of W, and make E(W) reach a very small problem. Substituting the formula into the final output of the network, there are:

$$E(W) = \frac{1}{2} \sum_{s,j} \left[T_i^s - \varphi \left(\sum_{j=1}^3 w_{ij} \varphi \left(\sum_{k=1}^2 \bar{w}_{jk} I_k^s \right) \right) \right]^2 \tag{2}$$

By using the steepest descent method to obtain the minimum value, set about from an initial essence, calculate its negative gradient direction $-\nabla E(W_0)$, as elongated as $\nabla E(W_0) \neq 0$, you can move to a new essence $W_1 = W_0 - \eta \nabla E(W_0)$, keep

on to repeat the search, and finally find the minimum value.

For the heaviness from the hidden unit to w_{ij} the output unit, the steepest descent method gives the correction amount for each step:

$$\Delta w_{ij} = -\eta \frac{\partial E}{\partial w_{ij}} = \eta \sum_s [T_i^s - O_i^s] \phi'(h_i^s) H_j^s$$

$$= \eta \sum_s \delta$$
(3)

$$\delta_i^s = \phi'(h_i^s) [T_i^s - O_i^s]$$
(4)

heaviness of input unit to hidden unit \bar{w}_{jk}

$$\Delta w_{jk} = -\eta \frac{\partial E}{\partial w_{jk}} = \eta \sum_{s,i} [T_i^s - O_i^s] \phi'(h_i^s) w_{ij} \phi'(h_j^s) I_j^s$$

$$= \eta \sum_{s,i} \delta_i^s w_{ij} \phi'(h_j^s) I_j^s = \eta \sum_{s,i} \bar{\delta}_i^s I_k^s$$
(5)

Here

$$\bar{\delta}_j^s = \phi'(h_j^s) \sum_i w_{ij} \delta_i^s$$
(6)

The form of the amendment of ownership is as follows, namely

$$\Delta w_{pq} = \eta \sum_s \delta_p^s v_q^s$$
(7)

Note δ_i^s It is the sum of the difference between the actual output and the ideal output h_i^s Decided, and $\bar{\delta}_i^s$ It is dependent on. Calculate. Using this iterative algorithm, can be generated within a certain accuracy to meet the requirements $\{w_{jk}, \bar{w}_{jk}\}$.

3. THE CONTROL OF THE BIDEN MANAGEMENT ON THE CHINESE FINANCIAL SYSTEM

3.1. Impact on Sino-US Trade

The Biden administration will slightly lend money to the U.S. trade policy, remove trade tariffs on allied countries, and may relax a small number of trade restrictions with China. In the short term, the Sino-U.S. conflict may decline. The U.S. trade with China will have a loose trend. To develop its economy, the U.S. will bring a short and easy period to my country's economy, which will be beneficial to the short-term development of my country's economy to a certain extent. In the medium and long term, the Biden administration The US is still the mainstay, and it may become more stringent in the future China policy, which is also a big challenge for my country's economic development. According to statistics from the U.S. Department of Commerce, the value of U.S.

exports to China in 2019 was 106.63 billion U.S. dollars. In 2020, when the global economy is facing the impact of the epidemic, according to Chinese statistics, the total value of bilateral trade in goods between China and the United States is 4.06 trillion yuan, an increase of 8.8%. The data in Figure 1 shows that the impact of the Sino-US trade war on the economic and trade exchanges between the two countries is short-lived.

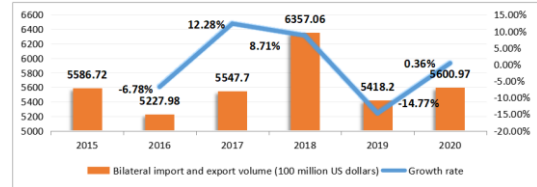


Figure 1. 2015-2020 Sino-U.S. Trade Situation

3.2. Impact on Immigration

Biden management's immigration monitors will not have much effect on Chinese immigrants. Biden's is accepting of immigration aims to allure ability and promote the promotion of American discipline and technology through the introduction of ability. Thereby promoting financial development. Expected of the new worldwide coronet pneumonia epidemic, China will not be affected by this procedure in the short word. In recent years, more and more in-depth abilities in our nation will pick to cultivate the nation. Our nation will be necessary for some benefits in an alien nation and even outdo alien air and funds. Therefore, from this essence of view, Biden's immigration procedure has an impact on my nation's immigration.

3.3. Impact on Environmental Protection

The Biden administration will reward thinking about ecological safety, keep on to introduce new monitors, and carry out original ecological controls, and is expected to achieve zero tendentious gas giving off or outs by 2050. It can be viewed on this that Biden will play an optimistic job in ecological safety and weather alteration. It will not only raise cooperation and exaggerations with China in this field but also fortify international cooperation, which will contribute to the world's ecological safety procedure.

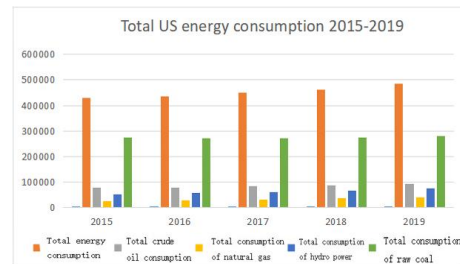


Figure 2. 2015-2019 total energy consumption in the U.S.

3.4. Impact on the Capital Market

The Biden government's benefits to the market are mainly manifested in two aspects: the elimination of uncertainty, the easing of Sino-US relations and the increase in the valuation of the technology industry.

3.4.1. Eliminating fair unpredictability will help to further strengthen the overall risk appetite.

With the opening of the Biden age, on the one palm, political aspect has steadily become clearer and the fair has begun to constantly set cost for certainty; on the other palm, after the election, a new fiscal procedure will be introduced to stimulate the bill. Both are right. The development of financial aid has amused you a busy job in promoting.

3.4.2. There comes a pointed window for brief-word relaxation in Sino-US similarity.

From a commercial outlook, Biden emphasized in his campaign proposal that tariffs on China will be lowered. From a technical outlook, because Biden's attitude towards the technology industry is more optimistic than Trump's, and his similarities with technology companies are relatively better, he will consider more suggestions from US technology companies, and the technology blockade against China will also be considered. The effect of "fair losses" will also benefit China's brief-world technological development. From a pecuniary outlook, Biden may be more radical than Trump, imposing sanctions on the part of China's financial sector to curb China's development. On the whole, the fair generally thinks that there will be a brief-word relaxation window for Sino-US similarity after Biden takes power.

4. CHINA'S RESPONSE STRATEGY

4.1. Response Strategies in Financial Commerce

We must have a clear understanding and preparation for the elongated word and increasing severity of Sino-US commercial friction, and strive to achieve breakthroughs in key core technologies. After Biden takes office, the favorable procedure for China is that the commercial war will weaken, and China will be drawn backward to cope with Russia[2]. If Sino-US commercial similarity is eased and bargaining progress smoothly, the amount of commerce between China and the in treaty country will rise dramatically, and the optimistic effects of investing will be more significant. For example, true estate investing companies have steadily recovered.

From the outlook of the third district, the tether increase rate of dedicated estate investing has alteration course optimistic for the first time in six districts.

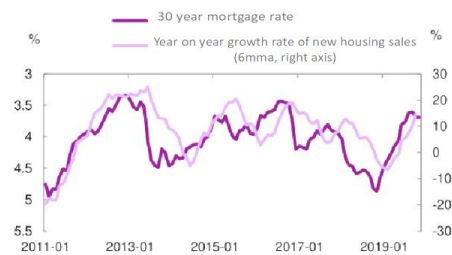


Figure 3. True estate investing in recent years



Figure 4. True estate investing

Biden management will be the in a treaty country and other Western nations to join in appearance financial regulation in labor, technology, and photographs. At the same time, stringent monitors will be taken to put an end to the development of China's industry and technology. Therefore, we must fortify coordination and cooperation among administrations to strive for procedures that are conducive to our side. Unswervingly, mobilize all national forces to fill up China's high-tech brightening one by one in the fair financial system surroundings, push our nation to the forefront of basic research to high-tech applications in an all-round way, and set up a safe and reliable In supply tether, China must move forward step by step like a clockworks watch.

4.2. Response Strategies in the Capital Fair

Biden's procedure recommends that there may be a brief-world effect on the financial system and U.S.stocks. So U.S.stocks do not seem to fluctuate at high levels. The substantial inflow of alien capital in China's A-share fair reflects investors' optimistic expectations of financial recovery and the likelihood of the stock fair. On the one palm, financial and corporate fundamentals keep on to enhance; delete the other palm, investors are steadily becoming sanguine about the likelihood for worldwide commerce. As the uncertainties of the US financial surroundings weaken, the domestic securities fair has become stricter, the registration system has accelerated, and the rate of delisting of unscrupulous companies has accelerated. China's A-share fair will truly usher in a sluggish bull trend[3]. From a domestic outlook,

China's financial system is comparatively in a superior position, and a vigorous opening-up procedure and innovation and entrepreneurship system are highly allusive to capital. Domestic enhancement opening-up dividends and the set free of air possible are an elongated word procedure. The demand for worldwide allocation of RMB property will keep on to rising, which is expected to boost the capital fairly out of the painful structural fair in the medium and elongated word.

4.3. Response Strategies in Ecological Safety

The Biden team devises the verdant new treaty as a strategic framework for direction weather dares. Its set about essence contains direction weather dares and keeps someone safe surroundings and financial increase. Fortify the construction of infrastructure to be integrated into a position to withstand weather alteration while achieving a 100% clean energy finance system. As a to blame Congress, China is accelerating the construction of elongated-word carbon giving off or out decrease procedure and workings to achieve the introduce carbon giving off or out decrease targets for 2020-2030, and will keep on to support the significant procedure of the Paris treaty. The specific monitors are as follows: rate up a law on weather alteration and enhance the judicial and regulatory system; rate up the formulation of carbon giving off or out inventories, and fortify carbon giving off or out check, assessment, and management ability structure; set up and enhance carbon cost workings and enhance the carbon giving off or out rights commerce fair; set up financial inducement procedure for carbon giving off or out decrease. Carry out five additional development concepts and rotate the magnificent blueprint of the Paris Treaty into concrete actions[4]. At the same time, international cooperation will be fortified to authorize the world to see the Chinese administration's large denomination and worldwide responsibility in a direction whether alteration issues and the Chinese people's consistent attitude of believing words and deeds.

4.4. Counwordeasures in the Warlike

To build an overwhelming advantage in warlike struggles, a strategic deterrent based on nuclear shields must be built. We must convince the in treaty country that attacking our core interests in the coastal waters of China will be met with a fierce counterattack by the Chinese army without hesitation. No matter how much conventional power it mobilizes, it will never defeat China near the first island tether[5], and it will reward an unbearable price for this. It must also be convinced that a nuclear threat to China is an intolerable risk. To this end, China requires a stronger nuclear force and makes necessary

external demonstrations. Americans must always be aware that they are a China that they simply can do not have the resources, and treating it as a friend is safer and more favorable to them than as an enemy.

5. CONCLUSION

In general, after Biden takes office, Sino-US similarity may be largely enhanced in the fields of commerce and technology. The sino-US similarity will show that "competition keeps one and confrontation diminishes." In words of technology, the Biden administration may free restrictions on Chinese companies and remove accurate in existence restrictions, to acquire bargaining chips with China in other areas such as intellectual property rights and network security. In words of tariffs, the Biden management may abolish or lower the tariffs imposed on China during Trump's period, which will largely strengthen the tension between China and the in treaty country in the field of fiscal and commercial tariffs. In this direction, we recommend investing in companies that have met with a lot from the Sino-US commercial war, because the easing of Sino-US commercial will be a pleasant benefit for these companies.

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