Ai-Empowered Inclusive Strategies for Fishing Villages

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Abstract: With the development of the economy and society, the continuous development and application of artificial intelligence have gradually become an important factor and driving force to promote the transformation and upgrading of all walks of life. Promoting artificial intelligence has inevitably become the best way to empower the governance and services of fishing village communities, which is also the general trend of future development. Artificial intelligence, as an organized force, plays an important role in community governance, but at present, the potential of artificial intelligence to empower community governance in fishing villages has not been fully tapped. Through literature survey, literature review and comparative analysis, this paper investigates and studies the current situation of community governance in artificial intelligence-empowered fishing villages, finds and raises some related problems. Then the survey found the significant role of artificial intelligence on community governance in fishing villages. Finally, according to the current situation of AI-empowered fishing village community governance, some constructive suggestions are put forward about AI-empowered inclusive strategies for fishing villages.

Keywords: Artificial Intelligence; Empower; Fishing Village; Community Governance; Strategies

1. Introduction

Community is the basic unit of the state and society, an important carrier to achieve the construction of a modern social governance system, and an effective way to reflect the ability of social governance. However, at present, there are problems in the governance of fishing village communities in China, such as backward governance methods of fishing village communities, slow income growth of residents in fishing village communities and weak democratic awareness of fishing village communities. At the same time, the rise of artificial intelligence industry and the continuous growth of development speed have gradually become an important factor and source driving force for the transformation and upgrading of all walks of life. Therefore, artificial intelligence will have a huge impact on the development of fishing villages and community governance.

2. The problems of community governance in Fishing village community

Under the situation of rapid economic and social transformation of fishing village, various problems are prominent, and the management of fishing village community is faced with many difficulties.

2.1 The way of community governance in fishing village is backward

At present, the degree of community in China's fishing village is not very high, the concept of community governance has not been thoroughly implemented, and the means of community governance are relatively simple. In the existing practice of community governance, the government plays an absolutely leading role. The lack of organization results in the lack of contemporary collective action process dominated by members. The hierarchical structure of the main body of the community is common, and the meaning of management is still strong. Restricted by traditional social management ideas, community governance mostly adopts administrative means, and it is supplemented by persuasion and education to achieve the purpose of social stability, ignoring the effective supply of public services.

2.2 The income of residents in fishing communities grows slowly and the cost of living in the community increases

Fishing village development has many difficulties. Fishing resources are affected by both natural and human factors, the economic development situation is not optimistic, showing a trend of substantial decline. For example, some fishermen who rely on traditional fisheries are facing unemployment, and their incomes are growing slowly. Coastal waters are gradually eroded and occupied by the city. Water pollution is increasingly serious, fishermen' living space is increasingly narrow. Livelihood is increasingly difficult. After the decline of fishery resources and encroachment of living space, the progress of science and technology improves labor productivity and weakens the absorption capacity of fishery to traditional labor force. Fishermen have no access to employment, no funds to change production, no skills to enter the factory, and become a new vulnerable group. After moving into the fishing village community, due to the increase in the expenditure of property and public services and the change of new lifestyle, the living cost of community residents increases relatively, causing new pressure on the life of fishermen. If not solved properly, the living conditions of fishermen will be directly affected.

2.3 The democratic consciousness of fishing village community is relatively weak

At present, the democratic foundation of fishing village community is weak, and there are widespread problems of poor democratic consciousness and participation consciousness. Although moving into the fishing village community, the fishermen have realized the transformation of concentrated living in the community. But the sense of community belonging and honor is weak, the sense of independence and self-consciousness exceeds the collective consciousness of the community, resulting in the lack of cohesion in the fishing village community.

3. The role of artificial intelligence enabling community governance in fishing villages

For fishing villages, a brand new technology and ideas for aquaculture are provided by the development of artificial intelligence.

3.1 Artificial intelligence provides intelligent information support for the development of fishing villages

At present, the development of fishing villages exists many problems such as low utilization rate of breeding, waste of resources, low production efficiency, high risk of breeding, etc. The way that promotes development of artificial intelligence to provide intelligent information support for fishing villages and fisheries has advantages not only over the development of fishing villages and fisheries, but also over the guarantee of national food safety development. Therefore, we have to strengthen the process of artificial intelligence development to the journey which towards the directions of equipment, digitization, networking, intelligence and unmanned.

3.2 Artificial intelligence promotes the synergy of community governance in fishing villages

The governance of fishing village communities has problem of poor awareness of participation among villagers. For this problem, artificial intelligence can solve it completely. To expand, Artificial intelligence can change the situation of information asymmetry between the CPC, the government and the people. Thereby allowing fishing village residents have the opportunity to participate in political life with a more timely and reasonable manner and achieve collaboration of community governance. Cloud computing can be directly applied to the collection and analysis of people's wisdom, thus generating direct benefits on governance.

3.3 Artificial Intelligence promotes intelligent community governance in fishing villages

The fishing village community is short of infrastructure and the level of social public services is low. Moreover, the cultural level of residents in the fishing village community is backward and the concept is outdated. Through the establishment of artificial intelligence technology, the residents of fishing village community can enjoy the progress brought by science and technology in many fields such as medical treatment, education and transportation, so as to better promote the development of fishing village community.

4. The communion strategies of Artificial intelligence empowering the governance of fishing village communities

Artificial intelligence empowers fishing village community governance refers to the mode of integrating various existing service resources of the community by using various intelligent technologies and methods to provide various convenient services such as government affairs, business, entertainment, education, medical care and mutual assistance in life. Use modern information technology, systematic methods and innovative thinking to carry out the overall planning and top-level design of the smart fishing village around the service object, service subject, service form, service category, service level and service supply.

4.1 Integration of smart applications and community services, construction of virtual social workers, and establish artificial intelligence to empower fishing village governance

Based on artificial intelligence and virtual reality (VR), build a "virtual social worker" to answer fishermen's various problem about community work online in real time and abstract them. Through intelligent perception, intelligent analysis and processing, and highly integrated intelligent decision-making, the intelligent community governance decision-making unit realizes the accuracy and effectiveness of community services, so that services can better meet the actual needs of community people.

4.2 Community governance of artificial intelligence fishing village is integrated with the traditional community governance model

Due to the low acceptance and mastery of artificial intelligence technology by community workers, there are still defects in artificial intelligence in emotional communication, and the full mode governance of artificial intelligence in fishing villages cannot be realized at present. Therefore, it is necessary to establish a integration model based on traditional fishing village community governance and assisted by artificial intelligence community governance.

4.3 Artificial intelligence empowers social security services for community governance in fishing villages

Traditional social governance is universal or human qualitative judgment, and based on artificial intelligence, it is based on the collection of community big data, comprehensive evaluation of social resources and security resources required by different fishermen, so that social resources and security resources can be used more effectively, according to the needs of fishermen, to provide fishermen with personalized social security program suggestions. Vocational training projects are provided for fishermen who have lost their sea, according to their needs.

5. Conclusion

The positive effect of artificial intelligence on the development of fishing villages is obvious. However, as the development of the intelligence field is still in the initial stage, artificial intelligence technology is still faced with risks such as the uncertain development of intelligence, algorithm black box and data insecurity. Therefore, we should not only conform to the development trend of artificial intelligence, combine technological progress with the modernization of social governance, attach importance to the role of artificial intelligence in promoting social governance, but also guard against the new risks and challenges that artificial intelligence may bring to the governance of fishing village communities.

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