

Analysis of the Realistic Impact of the Explosion of Artificial Intelligence Application on Contemporary Social, Economic and Cultural Development

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Abstract: With the rapid development of science and technology, artificial intelligence (AI), as an emerging and extremely subversive technological force, is penetrating into every corner of the social economy at an unprecedented speed, and has had a profound and extensive impact on contemporary social, economic and cultural development. This paper aims to comprehensively analyze the social, economic and cultural changes brought about by the explosion of artificial intelligence application, deeply discuss the opportunities created and challenges faced by it, and propose practical countermeasures on this basis, in order to provide reference and inspiration for decision-makers, researchers and practitioners in related fields.

Keywords: Artificial Intelligence; Social Economy; Culture; Realistic Influence

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Introduction

With the rapid development of science and technology, artificial intelligence (AI), as a shining pearl in the field of science and technology, is gradually penetrating into all levels of human society with its unique data processing ability, powerful autonomous learning function and accurate intelligent decision-making ability, profoundly

changing our way of production and life and even the way of thinking. From sophisticated intelligent manufacturing to intelligent medical treatment related to life and health, from convenient and efficient smart cities to trend-leading intelligent finance, the application scenarios of artificial intelligence are constantly expanding, and its influence has far exceeded the scope of technology, becoming the core driving force to promote the development of contemporary social economy and culture. Therefore, in-depth analysis of the practical impact of the explosion of artificial intelligence application on the contemporary social economic and cultural development will not only help us better grasp the pulse of scientific and technological development, but also provide strong support for future policy formulation, industrial planning and cultural innovation, which has important theoretical and practical significance [1].

1. The Impact of Artificial Intelligence on Contemporary Society and Economy

1.1 Production efficiency and industrial change

(1) The wide application of artificial intelligence technology has played a key role in improving production efficiency and promoting industrial change. In the field of manufacturing, the rise of intelligent manufacturing marks a profound change in the mode of industrial production. Through the integration of advanced sensors, the Internet of Things, big data analysis and artificial intelligence algorithms, intelligent manufacturing systems can monitor the parameters of the production process in real time, accurately predict the state of the equipment, optimize the production process, improve equipment utilization and energy efficiency, so as to achieve automation, intelligence and refinement of the production process [2]. This transformation has not only significantly improved production efficiency and reduced production costs, but also promoted the transformation and upgrading of the manufacturing industry to the direction of high value-added and high-tech content.

(2) Artificial intelligence has also spawned many emerging industries, such as AI chips, intelligent robots, autonomous driving, etc., the rise of these emerging

industries has injected new vitality into economic growth. As the core foundation of artificial intelligence technology, the research and development and application of AI chip have promoted the further leap of information technology. Intelligent robots have shown strong application potential in many fields such as manufacturing and service industries, and have become an important tool for enterprises to improve production efficiency and reduce labor costs. The rapid development of autonomous driving technology indicates a revolutionary change in the future transportation mode, which is expected to lead the transformation and upgrading of the automotive industry and even the entire transportation industry [3].

1.2 Employment structure and labor market

The widespread application of artificial intelligence is like a double-edged sword, which has a complex and profound impact on the job market. Its impact is mainly reflected in the profound changes in the employment structure and the fundamental shift in the demand for skills in the labor market.

(1) The rapid development and popularization of artificial intelligence technology has made many labor positions with high repeatability and relatively low skill requirements gradually replaced by automation and intelligent equipment. This phenomenon is particularly obvious in the manufacturing, retail, customer service and other fields, resulting in a significant increase in employment pressure in some traditional industries. Workers face the risk of job loss, income decline or even unemployment, posing challenges to social stability and individual livelihoods.

(2) The extensive application of artificial intelligence has also spawned a large number of new occupations and positions, injecting new vitality into the labor market. These emerging occupations include, but are not limited to, machine learning engineers, data scientists, AI product managers, AI ethics consultants, and others, which require practitioners to possess a high degree of professional skills, innovative thinking, and interdisciplinary knowledge. The emergence of these new jobs not only provides new employment opportunities for the labor market, but also promotes the

optimization and upgrading of the employment structure.

Faced with the change of employment structure, workers must actively adapt to the market demand and constantly improve their skills. This includes learning new technical knowledge, mastering new tools and methods, and cultivating innovative thinking and cross-border cooperation capabilities [4]. At the same time, the government and enterprises should also strengthen the construction of vocational education and training systems, provide diverse learning and development opportunities for workers, and help them smoothly transition to new employment fields.

(3) In order to mitigate the impact of artificial intelligence on the job market, the government can also take a series of policy measures, such as strengthening the construction of the social security system, improving the unemployment relief system, and encouraging entrepreneurship and innovation. These measures aim to protect the basic rights and interests of workers, stimulate market vitality, and promote the smooth transition and sustainable development of the job market.

1.3 Economic growth and productivity improvement

The in-depth application of artificial intelligence technology has undoubtedly become a powerful engine to promote global economic growth and productivity improvement [5]. By optimizing resource allocation, significantly improving production efficiency and continuously innovating business models, it is leading the global economy to a new stage of development.

(1) Artificial intelligence has shown great potential in optimizing resource allocation. With the help of big data analysis and intelligent decision-making system, enterprises can grasp the market demand more accurately and realize the efficient docking of production and sales. This not only reduces the waste of resources, but also improves the efficiency of resource utilization, laying a solid foundation for economic growth.

(2) The wide application of artificial intelligence technology has significantly improved production efficiency. In the field of manufacturing, the intelligent

manufacturing system realizes the fine management and control of the production process through automation, digitalization and intelligent means, which greatly improves the production efficiency and product quality. In the service industry, artificial intelligence also reduces labor costs and improves service efficiency through intelligent customer service and automated processes. These productivity improvements have directly contributed to the rapid growth of the global economy.

(3) AI also continuously innovates business models, injecting new impetus into economic growth. The rise of emerging fields such as smart finance, smart healthcare, and smart education has not only changed the operation mode of traditional industries, but also spawned a large number of new enterprises and innovative services. The rapid development of these emerging areas not only provides new growth points for economic growth, but also drives the development and improvement of related industrial chains.

2. The Impact of Artificial Intelligence on Contemporary Cultural Development

2.1 Change of cultural communication mode

In the digital age, the rapid development of artificial intelligence technology is changing the face of cultural communication in an unprecedented way. This change is not only reflected in the significant improvement of the mode and speed of communication, but also in the fundamental transformation of the depth, breadth and interaction of cultural communication.

(1) Through big data analysis and intelligent recommendation algorithm, artificial intelligence realizes the accurate push of cultural communication. In the face of a large amount of information, users are often difficult to quickly filter out the content that meets their interests. Artificial intelligence can use advanced algorithm models to deeply mine and analyze multidimensional data such as users' browsing history, interests, and social relationships, so as to accurately push personalized cultural content. This precise push not only improves the pertinence of cultural communication, but also greatly improves the reading experience and satisfaction of

users.

(2) The application of cutting-edge technologies such as virtual reality (VR) and augmented reality (AR) has brought more immersive and interactive experiences to cultural communication. Traditional cultural communication methods are often based on text, pictures, videos and other forms, which is difficult for users to get immersive feelings. VR and AR technology can break this limitation, through the simulation of real scenes or the construction of virtual worlds, so that users as if they are in the cultural scene, personally feel the charm and connotation of culture. This immersive and interactive experience not only enriches the forms and means of cultural transmission, but also greatly stimulates the enthusiasm and creativity of users.

(3) Artificial intelligence also promotes the convenience and efficiency of cross-cultural communication. Under the background of globalization, cultural exchanges between different countries and regions are becoming more and more frequent. Artificial intelligence can use natural language processing, machine translation and other technical means to achieve seamless conversion and communication between different languages. This not only lowers the threshold and cost of cross-cultural communication, but also promotes the understanding and integration between different cultures.

2.2 Innovation of cultural and creative industries

The rapid development of artificial intelligence technology has brought unprecedented innovation opportunities for cultural and creative industries. This field, as the product of the deep integration of culture and technology, is using the power of artificial intelligence to achieve a comprehensive innovation of creative processes, content forms and marketing strategies.

(1) AI shows great potential in content creation and design. Through advanced technologies such as machine learning and natural language processing, AI can assist creators in creative ideas, content generation, and design optimization. For example, in the field of literary creation, artificial intelligence can automatically generate

creative text content based on a set theme, style or emotion; In the field of visual arts, AI can assist designers in color matching, pattern design and other work to improve the efficiency and quality of creation. This man-machine collaborative creation mode not only broadens the boundaries of creativity, but also inspires more diversified artistic expression.

(2) AI is also capable of content analysis and prediction based on market demand and user preferences. Through the deep mining and analysis of massive data, AI can gain insight into the latest trends of the market and the potential needs of users, and provide more accurate market positioning and marketing strategies for cultural and creative industries. This data-based decision support helps companies seize market opportunities, develop effective promotion plans, and achieve better business results.

(3) Artificial intelligence also promotes the cross-border integration and innovative development of cultural and creative industries. In the digital age, the boundaries between different fields are increasingly blurred, and cross-border cooperation has become an important way to promote industrial innovation. As a bridge connecting different fields, artificial intelligence can break the barriers of traditional industries and promote the deep integration of culture, science and technology, art and other aspects. This cross-border integration not only enriches the connotation and extension of cultural and creative industries, but also injects new vitality and impetus into them.

2.3 Reconstruction of cultural values

The wide application of artificial intelligence technology, like a force that cannot be ignored, is profoundly affecting all aspects of human society, including our understanding and reshaping of cultural values. With the increasing penetration of AI technology, a series of discussions on human and machine, technology and ethics have been pushed to the foreground, prompting us to re-examine and reconstruct our own cultural values.

(1) The application of artificial intelligence challenges the traditional cognition of human-machine relationship. In the past, machines were often seen as human tools or

AIDS, existing and developing to serve human needs. However, as AI technology continues to advance, some machines with a high degree of autonomy and intelligence are beginning to show capabilities beyond the scope of traditional tools, such as autonomous learning, emotion recognition and even a certain degree of creativity. This change forces us to rethink the boundaries and relationships between humans and machines, and to explore how to give machines appropriate rights and responsibilities while respecting human subjectivity.

(2) The development of artificial intelligence technology has also triggered profound discussions on technology and ethics. In the pursuit of technological progress, we have to confront ethical issues such as data privacy, algorithmic bias, and AI responsibility. These problems are not only related to the rational application of technology, but also touch the moral bottom line and value pursuit of human society. Therefore, we need to strengthen the construction and supervision of ethical norms at the same time of technological development to ensure the healthy development of technology and social harmony and stability.

(3) The application of artificial intelligence also promotes the exchange and integration of global cultural values. In the context of globalization, cultural exchanges between different countries and regions are becoming more frequent, and artificial intelligence technology provides a more convenient and efficient way for such exchanges. Through virtual reality, social media and other platforms, people can easily cross geographical restrictions to understand and learn the essence and characteristics of different cultures. This kind of cross-cultural communication and integration not only enriches the treasure house of human culture, but also promotes the reflection and reconstruction of human cultural values.

3. Case Analysis

3.1 Intelligent manufacturing case: Tesla Gigafactory

3.1.1 Highly automated production line

(1) Automated robotic arms and precision equipment

In the Tesla Gigafactory, the automated robot arm is busy working in the workshop, accurately completing every production link, from welding, assembly to testing, each link has achieved a high degree of automation. Under the control of advanced computer systems, these robotic arms are able to operate according to strict standards and processes, ensuring the quality and production efficiency of the vehicle.

(2) Integrated die casting technology

Tesla introduced integrated die casting technology, such as the Giga Press die casting machine, which greatly improved production efficiency. In the Model 3 production line, Tesla reduced the number of robots by 600 due to the adoption of this technology, but was still able to maintain or even increase the production speed. The Shanghai Gigafactory, for example, can produce a brand new Model 3 or Model Y every 40 seconds, a rate that is among the highest in the global auto manufacturing industry.

3.1.2 Deep application of artificial intelligence technology

(1) Intelligent logistics system

The intelligent logistics system inside the Tesla Gigafactory is the core of the entire production line. The system realizes accurate, rapid and efficient distribution of materials by means of automated equipment such as automatic guided vehicle, automated storage system and advanced logistics information system. The application of big data and artificial intelligence technology enables the logistics system to automatically adjust the distribution of materials according to the real-time demand of the production line, avoiding downtime during the production process and significantly reducing inventory costs.

(2) Advanced perception and decision technology

In Tesla's intelligent manufacturing system, artificial intelligence technology is also reflected in the real-time monitoring and intelligent decision-making of the production process. By collecting production data through high-definition cameras, sensors and other devices, combined with advanced algorithms and models, the system can

analyze production conditions in real time, predict potential problems, and automatically adjust production parameters to ensure the stability and efficiency of the production process.

3.1.3 Embodiment of environmental protection and energy saving concept

(1) Green building design

Take Gigafactory 1 in Nevada, the United States, for example, the construction and operation of the factory fully demonstrates Tesla's environmental protection and energy conservation concept. The building design of the factory uses natural light lighting and geothermal heating, which greatly reduces energy consumption. In addition, Tesla also uses renewable energy sources such as solar energy to power the factory, achieving energy self-sufficiency and green emissions.

(2) energy-saving production technology

In the production process, Tesla employs a range of energy-saving technologies. For example, replacing human labor in production by robots not only reduces energy consumption, but also improves production efficiency. At the same time, Tesla also continuously optimizes the production process and flow, reduces the generation and emission of waste, and realizes green production.

3.2 Unmanned retail case: Alibaba unmanned supermarket

3.2.1 Technological innovation and application

(1) Automatic commodity identification

Unmanned supermarkets use RFID (radio frequency identification), computer vision and other technologies to achieve accurate identification of goods. When customers buy goods, there is no need to manually scan the code or checkout, and the system can automatically track and record the product information in the shopping car, which greatly improves the shopping efficiency.

(2) Intelligent settlement system

Combined with facial recognition, Alipay and other payment technologies, unmanned supermarkets achieve a fast and convenient settlement process. When customers leave the supermarket, the system will automatically recognize their identity and complete the payment, without waiting in line, which greatly saves time.

(3) Iot inventory management

Through the Internet of Things technology, the unmanned supermarket can monitor the inventory situation in real time, and realize the automatic replenishment of goods and inventory management. Based on sales data and inventory alerts, the system automatically sends replenishment orders to suppliers to ensure that the shelves are always full.

3.2.2 Impact on the traditional retail industry

(1) Improve operational efficiency

Unmanned supermarkets have significantly improved operational efficiency through automation and intelligent means. It reduces the labor cost of manual cash register, tally and other links, while improving the accuracy of commodity identification and settlement, reducing the risk of human error and fraud.

(2) Optimize shopping experience

Unmanned supermarkets provide consumers with a more free and convenient shopping environment. Customers can buy goods anytime and anywhere, without worrying about waiting in line or the attitude of the cashier, which greatly improves shopping satisfaction.

(3) Trigger changes in employment structure

However, the rise of unmanned supermarkets has also raised concerns about the structure of employment in the traditional retail sector. With the increasing level of automation and intelligence, traditional retail jobs such as cashiers and tally clerks may face the risk of unemployment. This requires the traditional retail industry to accelerate the pace of transformation and upgrading, strengthen staff training, and

improve the skill level of employees to adapt to the new market demand.

3.3 Cultural transmission case: Netflix intelligent recommendation system

3.3.1 System Overview

As the world's leading streaming media service platform, Netflix's intelligent recommendation system is a key driver for its business growth and user experience improvement. The system's clever combination of machine learning, big data analytics and deep learning algorithms has revolutionized the way people find and consume film and television content.

3.3.2 Technical Principles

Big Data collection: Netflix collects a large amount of user behavior data, including viewing history, ratings, search history, playback duration, device type, etc., as well as rich metadata, such as actors, directors, genres, parents' ratings, reviews, etc. These data provide a solid foundation for the recommendation system.

Machine learning algorithm: The system uses a variety of machine learning algorithms, such as matrix decomposition (SVD), Restricted Boltzmann machine (RBM), linear regression, logistic regression, Gradient Boosted Decision Trees, Random Forests, etc. Model and predict user interest.

Personalized recommendation: Based on the user's historical behavior and preferences, the system can generate personalized recommendation lists, which not only meet the user's interests, but also guide the user to discover new and possibly favorite movie and television content.

3.3.3 Recommendation Policy

Two-tier ranking system: Netflix uses a two-tier ranking system based on rows, which first generates recommendations in each row according to a specific algorithm (such as the top 10 hottest videos, most popular, horror movies, etc.), and then sorts them overall across rows, placing the strongest recommendations at the top.

Combining multiple recommendation algorithms: The system combines multiple recommendation algorithms, Examples include Personalised Video Ranking (PVR), Top-N Video Ranker, Trending Now Ranker, Continue Watching Ranker, and video-Video Similarity Ranker, etc., to provide more comprehensive and accurate recommendations.

Combining real-time and offline computing: To balance computational complexity and response speed, Netflix uses a combination of online, near-line and offline computing. Online computing can quickly respond to the latest events and user interactions, while offline computing allows for the use of more complex algorithms and more data.

3.3.4 Application Effect

Improve user experience: The intelligent recommendation system enables users to find their favorite film and television content more quickly, improving user satisfaction and stickiness.

Promote business growth: Through accurate recommendations, Netflix not only improves users' viewing hours and conversion rates, but also promotes the growth and expansion of its own business.

Cultural communication: The intelligent recommendation system not only promotes the dissemination of film and television content, but also promotes the exchange and integration between different cultures, providing users with more diversified viewing choices.

4. Challenges Faced and Coping Strategies

4.1 Challenges

When discussing the widespread application of artificial intelligence (AI), we must face up to a series of accompanying challenges that are not only related to the technology itself, but also have profound social, economic, legal and ethical implications.

4.1.1 Privacy protection and data security

With the popularity of AI technology, large amounts of personal data are collected and analyzed to optimize algorithms and provide personalized services. However, it also raises serious privacy concerns. The leakage or abuse of user data may lead to the loss of personal rights and interests, and even threaten national security. Therefore, how to ensure the security and privacy of data in the process of collection, storage, processing and transmission has become an urgent problem to be solved.

4.1.2 Ethical and moral issues

The decision-making process of AI technology is often based on large amounts of data and complex algorithms, but the logic and judgment criteria behind it can be difficult for humans to fully understand. This has led to some ethical controversies, such as algorithmic bias and unclear attribution of responsibility. For example, AI systems may amplify social injustices due to biases in training data, or in some cases make decisions that do not conform to human ethics. In addition, with the deepening application of AI in medical, legal and other fields, how to ensure that AI decisions comply with ethical standards is also an urgent problem to be solved.

4.1.3 Competition and inequality in the job market

The rapid development of AI technology is changing the job market, with automation and intelligence replacing some traditional jobs, leading to an increased risk of unemployment. At the same time, the ability to master and apply AI technology has also exacerbated the inequality in the job market. People with AI skills tend to earn higher salaries and better career prospects, while workers who lack relevant skills may face greater employment pressure. Therefore, how to balance the development of AI technology and the stability of the job market, as well as how to promote the skills upgrading and transformation of the labor force, has become a problem that policymakers and all sectors of society need to face together.

4.1.4 Crossing barriers in multiple fields

The popularization and application of AI technology needs to overcome barriers in many fields such as technology, law, and ethics. At the technical level, the research and development and application of AI technology need to continuously break through the bottlenecks in algorithms, computing power, data and other aspects; At the legal level, it is necessary to establish a sound legal and regulatory system to regulate the research and development, application and management of AI technology. At the ethical level, it is necessary to strengthen ethical and moral construction and guide the development of AI technology to the good. The interweaving and mutual influence of these fields makes the popularization and application of AI technology more complicated and difficult.

4.2 Coping Strategies

4.2.1 Strengthen the construction of laws and regulations, and improve the privacy protection and data security mechanism

(1) Formulate and improve relevant laws and regulations: the government should speed up the formulation and improvement of laws and regulations on privacy protection, data security, algorithm transparency and other aspects, clarify the standards and boundaries of data collection, use, storage and transmission, and provide legal protection for the healthy development of artificial intelligence technology.

(2) Establish a regulatory mechanism: set up a special regulatory body or department, responsible for supervising the research and development and application of artificial intelligence technology, ensure that relevant enterprises and individuals comply with laws and regulations, and severely punish violations.

(3) Promote technological innovation: encourage and support technological innovation, develop more secure and efficient privacy protection and data encryption technologies, and improve data security protection capabilities.

4.2.2 Strengthen ethical and moral construction and guide the healthy development of artificial intelligence technology

(1) Establish an ethical review mechanism: In the process of research and development and application of artificial intelligence technology, establish an ethical review mechanism to conduct a comprehensive assessment of the ethical issues that may be involved, and ensure that the development of technology meets social ethical and moral standards.

(2) Strengthen ethical education: Integrate ethical and moral education into the education system, cultivate ethical awareness and responsibility of scientific and technological personnel, and guide them to establish correct values and moral values.

(3) Promote public participation: Encourage the public to participate in the discussion and decision-making process of artificial intelligence technology, enhance the public's understanding and recognition of technological development, and form a good atmosphere for the whole society to jointly pay attention to and support the healthy development of artificial intelligence.

4.2.3 Strengthen education and training to improve the skill level and adaptability of workers

(1) Adjust the educational structure: according to the development trend and demand of artificial intelligence technology, adjust the educational structure, strengthen STEM (science, technology, engineering and mathematics) education, and train more talents with innovative ability and practical ability.

(2) Carry out vocational training: carry out vocational training and skills upgrading programs for the existing workforce to help them master new skills and knowledge and improve their ability to adapt to the era of artificial intelligence.

(3) Promote lifelong learning: Establish a lifelong learning system, encourage people to continue to learn new knowledge and new skills, and maintain the competitiveness of The Times.

4.2.4 Strengthen international cooperation and exchanges to jointly deal with the global challenges brought by artificial intelligence

(1) Strengthen international cooperation: actively participate in international artificial intelligence cooperation and exchange activities, share experience and technical achievements, and jointly cope with global challenges brought by artificial intelligence.

(2) Formulate international standards: Promote the formulation of international standards and norms in the field of artificial intelligence, and promote the coordination of countries in technology research and development, application and management.

(3) Strengthen dialogue and communication: Strengthen dialogue and communication with the international community, enhance mutual understanding and trust, and jointly promote the healthy development of artificial intelligence technology.

5. Conclusion

The wide application of artificial intelligence is undoubtedly a milestone that cannot be ignored in the development of contemporary social economy and culture. It has not only penetrated into various industries at an astonishing speed, but also profoundly changed our mode of production, lifestyle and even way of thinking. From the economic perspective, artificial intelligence has injected new vitality into economic growth and significantly improved social productivity by improving production efficiency, optimizing resource allocation, and promoting industrial transformation and upgrading. At the same time, it also gave birth to new business models and industrial forms, opening up a broader space for economic development.

In the field of culture, the application of artificial intelligence has also had a profound impact. It has changed the way and speed of cultural transmission, enabling information and knowledge to be disseminated globally in a more convenient and efficient way. In addition, AI has also promoted the innovation and development of cultural and creative industries, bringing unprecedented changes to the creation, production, dissemination and consumption of cultural products. More importantly, AI has played an important role in reshaping human cultural values, leading us to

re-examine the relationship between man and nature, man and society, man and self, and promoting cultural diversity and inclusion.

However, as we have seen, the widespread application of AI also comes with a series of challenges and problems. Privacy protection, data security, ethics and other issues have become increasingly prominent, and have become key factors restricting the healthy development of artificial intelligence. At the same time, the rapid development of artificial intelligence technology has also intensified competition and inequality in the job market, affecting some traditional industries and workers. Therefore, we must face up to these problems and take effective measures to deal with them.

In order to promote the healthy development of artificial intelligence, we need to strengthen the construction of laws and regulations, improve privacy protection and data security mechanisms, and provide solid legal protection for the application of artificial intelligence technology. At the same time, we also need to strengthen ethical and moral construction, and guide the research and development and application of artificial intelligence technology to meet social ethical and moral standards. In addition, education and training are also an indispensable part, and we need to strengthen education and training to improve the skill level and adaptability of workers, and help them better adapt to the needs of the AI era. Finally, international cooperation and exchange is also an important way to promote the healthy development of artificial intelligence, and we need to strengthen dialogue and communication with the international community to jointly cope with the global challenges brought by artificial intelligence.

In short, the explosion of AI applications has had a profound and extensive impact on contemporary socio-economic and cultural development. We need to see both the opportunities and benefits it brings and the challenges and problems it brings. By strengthening efforts in the construction of laws and regulations, ethics, education and training, as well as international cooperation and exchanges, we can better cope with the challenges posed by AI and promote its healthy development, making greater

contributions to the progress and prosperity of human society.

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