

Return on Investment Analysis Of AI-enabled Enterprise SaaS Softwareanizational Conflict

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Abstract: With the rapid development of artificial intelligence (AI) technology and the wide application of SaaS (software as a service) model, AI-enabled SaaS software has become an important means for enterprises to improve efficiency, reduce costs and optimize customer experience. AI technology can bring significant value to SaaS software in data analysis, prediction and decision-making, and automated processes. However, when implementing AI-enabled SaaS software, companies need to assess their return on investment (ROI) to ensure that technology inputs can deliver the desired economic benefits and strategic advantages. This study analyzes the application scenarios, costs and benefits of AI-enabled SaaS software, discusses the key factors influencing the return on investment, and puts forward the optimization strategy, aiming to help enterprises better measure the returns brought by AI technology, optimize resource allocation, and finally improve the overall investment efficiency.

Keywords: SaaS software, return on investment, technology optimization, data analysis.

1. Introduction

1.1. Research Background

(1) Artificial intelligence and SaaS software rapid development

In recent years, the application of artificial intelligence (AI) technology in all industries is showing explosive growth, especially in the enterprise software sector, where AI is becoming a key technology to improve business efficiency, optimize services and innovate business models. Artificial intelligence has not only changed the function and performance of traditional software products, but also promoted the innovation of software model. SaaS (Software as a Service) is the most representative form of innovation. The SaaS software provides on-demand services for enterprises through the cloud platform, which reduces the technical maintenance burden of enterprises and promotes the optimal allocation of IT resources. With the continuous maturity of artificial intelligence technology, more and more SaaS platforms begin to integrate AI technologies, such as natural language processing, machine learning and data analysis, thus improving the intelligence degree of the software and enabling it to provide more accurate prediction and automated decision support.

From the perspective of the market development trend, the combination of SaaS software and artificial intelligence has become an irreversible trend. For example, intelligent customer service, intelligent sales forecasting, automated operation analysis and other functions have become the core features of many enterprises SaaS software, greatly driving the market share of these software. More and more enterprises begin to rely on AI-enabled SaaS software to enhance their competitiveness, thus promoting the deep integration and symbiotic development of these two technologies.

(2) Demand for digital transformation and intelligent tools is growing

With the digital transformation of the global economy, enterprises are gradually relying on data-driven intelligent tools in operation and management, decision support,

customer relations and other aspects. Digital transformation is not only the optimization of the internal resource management of enterprises, but also the requirement for the improvement of external competitiveness. AI technology, especially in data mining, analysis, prediction and automation, is one of the key technologies driving this transformation.

In this context, more and more enterprises begin to invest in intelligent tools, such as cloud platform-based SaaS software. This software can use AI technology to optimize operational efficiency, reduce labor costs, improve customer experience, and help enterprises make accurate market prediction and decision making. As a result, enterprises demand for digital transformation and their increasing reliance on intelligent tools are creating a huge market space for AI-enabled SaaS software.

1.2. Research Meaning

(1) Discuss the value enhancement of artificial intelligence to SaaS software

The addition of artificial intelligence technology has brought unprecedented value enhancement to SaaS software. First of all, the application of AI technology has greatly enhanced the automation degree of SaaS software. Through machine learning and intelligent algorithms, the software can self-optimize based on a large amount of data and provide accurate analysis and prediction results. This enables companies to quickly make efficient decisions made through intelligent tools without human intervention, thus greatly improving work efficiency and resource utilization.

Second, AI-enabled SaaS software also improves the ability of personalized services. Traditional SaaS software is often designed based on standardized functions, which is suitable for the needs of most enterprises, while AI technology can be deeply customized according to the actual situation of different enterprises, so that it is more in line with the personalized needs of enterprises. Through data analysis, AI can identify the characteristics of different enterprises, recommend the most appropriate solutions, and help enterprises to achieve precision marketing, optimize customer relationship, and improve customer satisfaction.

Finally, the application of AI in SaaS software also improves the foresight and adaptability of the software. The prediction function based on big data analysis enables SaaS software to predict market changes and trends of customer demand, and help enterprises to make response adjustments in advance, so as to occupy the market opportunity.

(2) Help companies evaluate the return on their investment in AI technology

For enterprises, the introduction of AI technology often requires a large-scale investment, involving hardware and software updates, the training of technical personnel, and possible operating costs. Therefore, how to evaluate the return on investment (ROI) of AI-enabled SaaS software is a priority issue that enterprise decision-makers need to consider when investing. By analyzing the benefits and costs of AI technology on SaaS software, companies can better measure the return on this investment.

Specifically, the returns of AI-enabled SaaS software are reflected in many aspects: for example, improving operational efficiency and reducing labor costs through intelligent functions, optimizing decision-making through accurate data analysis to enhance enterprise market competitiveness, and enhancing customer engagement through data-driven personalized services, and increasing the long-term value of users. The analysis of ROI can help companies identify the specific benefits of each expenditure to determine whether it is worth the AI-enabled investment.

1.3. Study Pose and Methods

(1) Analyze the return on investment (ROI) of the AI-enabled SaaS software

The main objective of this study is to conduct an in-depth analysis of ROI of AI enabled SaaS software. By comparing the business performance of traditional SaaS software and AI-enabled SaaS software, the benefit difference between the two is analyzed, so as to quantify the contribution of AI technology to the return on investment. We will start from both cost and benefit, we will first calculate the investment cost required for the introduction of AI, including technology research and development, platform construction, personnel training, etc., and then evaluate the specific benefits of AI-enabled SaaS software, mainly including efficiency improvement, customer satisfaction improvement, market expansion and other aspects.

(2) Adopt both quantitative and qualitative analysis methods

To comprehensively assess the ROI of AI-enabled SaaS software, this study combined quantitative and qualitative analysis. Quantitative analysis mainly collects relevant data before and after the implementation of SaaS software to calculate the rate of return, and measures the specific effectiveness of AI in improving work efficiency, reducing operating costs, and enhancing customer experience. In qualitative analysis, interviews with enterprise managers and users provide an in-depth understanding of the value enhancement of AI-enabled SaaS software in practical application, especially in the performance of soft benefits such as innovative services and market competitiveness.

Through the combination of these two analysis methods, we can evaluate the return on investment of AI-enabled SaaS software in a more comprehensive and accurate way, provide data support and decision-making basis for enterprise decision makers, and help them gain advantages in the increasingly competitive market environment.

2. The Fusion of Artificial Intelligence and SaaS Software

2.1. The Basic Concepts and Development of Artificial Intelligence

(1) The core technologies of artificial intelligence: machine learning, deep learning, etc

Artificial intelligence (AI) is a technology system that simulates, extends and extends human intelligence. It enables the computer to perceive, reason, learn, and make decisions through algorithms and models. The core technologies of artificial intelligence mainly include machine learning (Machine Learning, ML), deep learning (Deep Learning, DL), and natural language processing (NLP) [1]. Among them, machine learning is the most basic and key technology in artificial intelligence, which enables computers to learn and make predictions and decisions through large amounts of data. Machine learning is further divided into supervised learning, unsupervised learning and reinforcement learning. For different application scenarios, it can adjust and optimize the algorithm to improve the accuracy and effect of the system.

Deep learning is a branch of machine learning, which simulates the structure of human brain neurons through multi-layer neural networks to automatically extract features from data and make efficient learning and prediction. Deep learning is widely used in image recognition, speech recognition, autonomous driving and other fields, and its powerful processing power makes it show great advantages in the environment of big data. Natural language processing (NLP) allows computers to understand and process human language, enabling them to perform speech recognition, automatic translation, text generation and other tasks.

With the improvement of computing power and the development of big data technology, artificial intelligence has gradually shifted from theoretical research to practical application and entered the commercialization stage. The rapid development of machine learning, deep learning and other technologies has promoted the wide application of AI in many industries, especially in the field of enterprise management and software services, and the application prospect of AI-enabled SaaS software is particularly broad.

(2) Application scenarios and future development trends of artificial intelligence

AI applications are widely available, especially in enterprise SaaS software, where AI technology is deeply enabling from simple task automation to complex decision support systems. Specific application scenarios include:

Intelligent customer service: Using natural language processing and machine learning technologies, AI can provide enterprises with intelligent customer service systems, help enterprises automatically answer users questions without human intervention, and constantly learn from user interaction and improve service quality.

Prediction analysis: AI can analyze enterprise historical data to predict future trends, such as sales forecast, inventory management, market demand, etc., so as to help enterprises to make better decisions.

Data analysis and automation reporting: Enterprises conduct in-depth analysis of big data through AI, automatically generate reports and insights, reduce manual operations and errors, and improve work efficiency.

In the future, with the continuous maturity of artificial intelligence technology, the application scenarios of artificial

intelligence will continue to expand, especially in the fields of intelligent decision-making, unmanned driving, intelligent manufacturing and other fields, and AI will play a greater role in more industries. For SaaS software, the further application of AI will promote the improvement of its intelligence level, thus helping enterprises to achieve more efficient and personalized services.

2.2. Overview of the SaaS Software

(1) Introduction of the SaaS (Software as a Service) model

SaaS (Software as a Service, Software as a Service) is a service model based on cloud computing, where users do not need to buy and install the functions of the software, just through an Internet connection. The SaaS model enables enterprises to purchase services on demand according to their actual needs, avoiding high upfront investment and IT maintenance costs. SaaS software is usually developed and maintained by third-party cloud service providers, and companies access services through subscription and pay fees based on actual usage.

The biggest feature of the SaaS model is flexibility and scalability. Users can adjust the scale and function of the service at any time according to their business needs[2]. In addition, SaaS software providers usually conduct regular software updates and maintenance, and users do not have to bear additional maintenance and update costs, and can enjoy new features and technological advances in the first place.

(2) Advantages and challenges of the SaaS software

The advantages of SaaS software are mainly reflected in the following aspects:

Cost reduction: SaaS software eliminates the one-time purchase and deployment of hardware facilities, and users only pay monthly or annual subscription fees, reducing enterprise IT costs.

Flexibility and scalability: Enterprises can choose suitable functional modules according to their actual needs and adjust them according to their needs. SaaS software usually has good scalability and can support enterprises of different sizes and needs.

Efficient and continuously updated: SaaS software is usually maintained by a professional cloud service provider, and users can ensure that the system is always up-to-date and receives timely technical support.

However, the SaaS software also faces some challenges:

Data security and privacy: As SaaS software is hosted on a third-party cloud platform, data security and privacy issues have become the focus of enterprises. Enterprises must ensure that the data encryption and backup measures provided by the vendors are secure enough.

Network dependence: The SaaS software relies on the Internet connection, and once the network failure occurs, it may affect the normal operation of the enterprise.

Limitations of function customization: Although SaaS software has some flexibility, in some cases, it cannot meet the personalized needs of some enterprises, requiring enterprises to negotiate with suppliers and customized development.

2.3. The Way that AI Enables SaaS Software

(1) Intelligent function integration (such as intelligent customer service, automation analysis)

An important direction of AI to enable SaaS software is to improve the service level and business capability of the software through intelligent functions. Intelligent customer

service is a typical application of AI in SaaS software. Through natural language processing technology, AI can interact with users, answer customer questions, automatically classify and forward questions, greatly improving the response efficiency of customer service. Through machine learning, the intelligent customer service system can continuously accumulate experience from conversations with customers, and gradually improve the accuracy of conversations and customer satisfaction.

Another important application is automated analysis. AI technology can automatically business analysis based on historical and real-time data, providing data insight and optimization recommendations. By integrating AI analysis modules, SaaS software can help enterprises achieve more accurate market positioning, sales forecasting and inventory management.

(2) Data-driven business optimization (e. g., predictive analytics, decision support system)

AI-enabled SaaS software is also reflected in data-driven business optimization. Through machine learning and deep learning technologies, SaaS software can analyze enterprise historical data, discover potential patterns and trends, and make business predictions. For example, the sales team can use AI to make sales forecasts and set more reasonable sales targets, and the HR department can use AI to analyze employee performance and optimize recruitment and training plans.

AI-driven decision support systems (DSS) can provide data support to enterprise management to help them make more scientific and efficient decisions. DSS system collects a large amount of enterprise data, combined with industry trends and market changes, to provide real-time decision suggestions, so as to improve the accuracy and efficiency of enterprise decisions.

(3) Artificial intelligence has improved the market competitiveness of SaaS software

By introducing artificial intelligence, SaaS software is able to gain a significant competitive advantage in the market. First of all, AI technology has improved the intelligence level of SaaS software, so that the software is not limited to traditional functions, but also to provide more value-added services based on data analysis and prediction. Second, AI-enabled SaaS software can provide customized solutions for enterprises to meet the needs of different enterprises and industries, thus improving user engagement and satisfaction.

In addition, AI enables SaaS software to provide more accurate market insight and customer analysis, help enterprises to find new business opportunities, optimize customer relationship management, and improve market competitiveness. By using AI-enabled SaaS software, enterprises can greatly enhance their capabilities in the digital transformation and enhance their advantages in the fierce market competition.

3. Return on Investment Analysis Framework of Enterprise SaaS Software

3.1. Return on Investment (ROI) Concept and Its Importance

(1) Definition and calculation formula of the ROI

Return on investment (ROI, Return on Investment) is an important indicator of the investment benefit, which is used

to evaluate the proportional relationship between the return on investment and the input cost. Its basic definition is to measure the profitability and benefit of investment by calculating the ratio of income and investment cost. In enterprise management, ROI is the key basis for decision makers to determine whether an investment is worth investing.

(2) The ROI is calculated as follows:

$$ROI = \frac{\text{Investment income} - \text{Investment costs}}{\text{Investment costs}} \times 100\%$$

Among them, "investment income" refers to the direct or indirect economic benefits brought by investment, including income growth, cost savings, etc.; "investment cost" includes all investment-related expenses, such as research and development costs, equipment input, labor costs, etc.

For AI-enabled SaaS software, ROI is not only a traditional financial return, but also a comprehensive measure of soft gains such as efficiency improvement, service quality improvement and customer satisfaction. Therefore, assessing the return on investment of SaaS software needs to combine the overall strategy and business objectives of the enterprise, taking into account the all-round impact of the digital transformation.

(3) Application in the SaaS industry

In the SaaS industry, ROI evaluation is especially important, because SaaS software usually uses subscription pricing model, enterprises need to pay regularly, and the returns are long-term, gradually accumulated. Therefore, ROI is not only a one-time return calculation in the short term, but also a long-term and continuous process.

The ROI analysis in SaaS industry can be carried out from two aspects: one is the return on investment of enterprises, including the direct economic benefits brought by using SaaS software, such as reducing IT cost, improving operational efficiency, and expanding market share; the second is the return on investment of users, including the convenient service brought by SaaS software, automatic workflow, customer relationship improvement, etc. This two-way return analysis helps enterprises and SaaS service providers more comprehensively evaluate the market value of products and services.

3.2. Cost Analysis of AI-enabled SaaS Software

(1) Initial investment cost: software development, artificial intelligence technology introduction

The initial investment in AI-enabled SaaS software is usually high, especially in the introduction of AI technology and the software development phase. When enabling AI, enterprises need to invest a lot of money in the following aspects:

Software development cost: Developing SaaS software with AI capabilities requires a high technical input. First of all, enterprises need to design and develop corresponding intelligent functions according to their business needs, such as intelligent recommendation, automated data processing, intelligent customer service, etc. Secondly, the development process also involves the design of the back-end technical architecture, database management and system integration, which require high-level technical developers, and thus increase the development cost.

Introduction cost of artificial intelligence technology: The introduction of artificial intelligence technology is not only a technical update of software development, but also requires a large amount of collection, collation and processing of data.

The training and optimization of AI models need to consume a lot of computing resources, and may face the problems of immature model and low accuracy in the initial stage, which requires additional funds for adjustment and optimization. In addition, enterprises need to purchase the necessary hardware equipment, cloud services or third-party AI technology services to ensure the stability and security of AI systems [3].

(2) Continuous maintenance and optimization costs

AI-enabled SaaS software needs to be continuously maintained and optimized after the initial investment. This part of the cost is mainly reflected in the following aspects:

Software Update and Maintenance: As market demand changes and technology advances, SaaS software needs to be updated and upgraded regularly to ensure continuous optimization of its functionality and performance. The training and optimization of AI models is also a continuous process, and enterprises need to regularly adjust and improve AI algorithms to improve their prediction accuracy and business adaptability.

Data maintenance and processing: AI-enabled SaaS software relies on a large amount of historical data and real-time data for intelligent analysis and decision support, so enterprises need to invest a lot of resources in data collection, cleaning, storage and management. In addition, as the business expands, enterprises also need to increase the ability of data processing to keep the system running efficiently.

Technical support and labor costs: While AI-enabled SaaS software has greatly improved automation, it still requires some professionals to monitor, maintain, and support the system. The salaries and management costs of these technicians are also part of the continuous investment of enterprises.

(3) Other hidden costs (e. g., employee training)

In addition to the direct development, maintenance, and optimization costs, enterprises may also face some hidden costs when implementing AI-enabled SaaS software. These costs may not be easily quantified at the beginning, but have important effects on the success of the project. for instance:

Employee training cost: AI-enabled SaaS software often requires employees to have certain professional knowledge of data analysis and artificial intelligence application. Therefore, enterprises need to provide employees with corresponding training to ensure that they can make full use of these intelligent tools to improve work efficiency.

Change management cost: The introduction of AI technology may lead to organizational changes and workflow changes within the enterprise. These changes may require more resources and time input to ensure that employees can adapt to new ways of working and reduce resistance and resistance.

3.3. The Revenue Source of AI-enabled SaaS Software

(1) Efficiency improvement: reduce labor costs and improve productivity

A significant source of revenue for AI-enabled SaaS software is reducing labor costs by improving productivity. For example, AI intelligent customer service system can automatically respond to customer problems and reduce the demand for human customer service; automated data analysis tools can save a lot of data analyst working time. Through the application of these intelligent functions, enterprises can greatly improve work efficiency without increasing personnel, thus saving labor costs.

(2) Service quality improvement: enhance customer satisfaction and customer stickiness

Through AI empowerment, SaaS software can provide more personalized and intelligent services to further improve customer satisfaction. For example, AIs ability to recommend personalized products and services based on customers historical behavior data, and intelligent customer service to provide 24 / 7 response, all of which greatly enhance the customer experience and stickiness. With the improvement of customer satisfaction, enterprises can obtain more long-term customers and higher customer retention rate, thus creating greater long-term benefits for enterprises.

(3) Market expansion: innovative product function and new market development

The introduction of AI technology can promote the innovation of SaaS software functions and help enterprises stand out in the fierce market competition. Through AI technology, SaaS software can continuously innovate product functions, meet the needs of different industries and customers, and expand more market opportunities. For example, AI can help companies customize more accurate marketing strategies and identify new market needs. As product features enrich and market demand expands, SaaS software will bring more revenue sources.

(4) Data value: Enhanced decision support through data analysis

Another important source of revenue for AI-enabled SaaS software is enhanced decision support through data analysis. Through the processing and analysis of big data, enterprises can obtain more accurate market insight and customer behavior prediction, so as to make more scientific decisions. This data-driven decision-making method can significantly improve the operational efficiency of enterprises, optimize resource allocation, and bring higher profits and stronger market competitiveness to enterprises.

4. Case Study of AI Enabled SaaS Software

4.1. Typical Cases at Home and Abroad

(1) Domestic success cases: such as Dingding, Tencent cloud, etc

In China, Dingding and Tencent Cloud are two typical cases of successfully enabling SaaS software. As an enterprise-level SaaS collaboration platform launched by Alibaba, Dingding has realized intelligent services in many business scenarios through the integration of artificial intelligence technology, and improved the efficiency of enterprise operation. The AI technology of Dingding is mainly reflected in intelligent conference, intelligent office assistant and intelligent customer service. For example, through speech recognition and natural language processing technologies, nails can automatically generate meeting minutes, identify task assignments for participants, and make intelligent reminders and recommendations based on historical data. In addition, Dingding also launched an intelligent customer service function, through the chatbot to automatically answer common questions from employees or customers, reducing the work burden of human customer service.

Tencent Cloud provides one-stop SaaS services for enterprises through its cloud computing platform and artificial intelligence technology. Tencent Clouds AI technology is not only applied to the optimization of

infrastructure, but also achieved significant achievements in intelligent analysis, image recognition, speech recognition and other fields. For example, Tencent Clouds AI can help enterprises with precision marketing through big data analytics, and automate customer service through voice recognition technology. The application of these technologies not only improves the customer experience, but also greatly improves the operational efficiency and decision-making ability of enterprises.

(2) Foreign successful cases: such as Salesforce, Zendesk, etc

Abroad, Salesforce and Zendesk are two companies that have achieved great success in AI-enabled SaaS software. Salesforce Is a worlds leading cloud computing CRM (Customer Relationship management) platform, which uses artificial intelligence technology to realize AI-driven customer relationship management through Salesforce Einstein. Salesforce Einstein Integrated with machine learning and deep learning algorithms, it can provide users with accurate sales prediction, personalized customer recommendation, intelligent customer support and other services. With the introduction of AI, Salesforce not only improves customer engagement and satisfaction, but also improves the success rate of marketing and sales through big data analytics, thus promoting the companys revenue growth.

Zendesk Is a worlds leading customer service platform, providing cloud-based SaaS services. Zendesk Through its AI technology, enterprises can provide intelligent customer service and automation services, including intelligent problem classification, automatic chemical order allocation, real-time problem solving, etc. The introduction of AI makes Zendesk not only reduce the workload of human customer service, but also greatly improve the response speed and accuracy of customer problem solving. With these innovative AI features, Zendesk not only improves customer satisfaction, but also optimizes the cost structure of customer service.

4.2. The ROI Analysis in The Case

(1) Revenue growth comparison before and after the investment

In the above case, AI-enabled SaaS software has achieved significant results in return on investment by improving enterprise efficiency and customer experience. Take Dingding as an example. Alibaba has integrated AI technology to successfully build Dingding into a leading enterprise service platform in China. According to public data, since its launch, Dingding has gradually attracted a large number of enterprise customers, and the number of users has grown rapidly, especially during the epidemic period, when the number of active users of Dingding has surged. This growth has directly boosted Alibabas revenue growth in enterprise services.

Tencent Cloud promotes revenue growth by providing an AI-based cloud service platform to helps companies in various industries to improve efficiency, and in turn. The AI empowerment of Tencent Cloud not only improves enterprise customer satisfaction, but also enhances customer engagement by providing customized services, driving business expansion and revenue growth.

In foreign countries, Salesforce realizes the optimal management of customer life cycle through AI enabling CRM platform, and thus promotes the companys revenue increase [4]. Salesforce Einstein The introduction of revenue growth enables enterprises to increase the success rate of sales opportunities and promote revenue growth through accurate

data analysis and prediction.

Similarly, with the introduction of AI technology, Zendesk not only improves customer support efficiency, but also improves customer response experience, making more enterprises willing to subscribe to their services, thus promoting sustained revenue growth.

(2) Investment return period and return rate analysis

From the perspective of investment return period, the investment return of AI-enabled SaaS software is usually a long-term process with a long return period. For example, the AI technology of Dingding and Tencent Cloud is large in the initial investment, but with the expansion of the user base and the continuous optimization of the technology, their long-term returns gradually appear. The AI technology has helped it attract a large number of enterprise customers and improve its customer retention rate, gradually forming a stable revenue source; Tencent Cloud has attracted large customers in different industries by providing customized AI services, bringing long-term and stable revenue growth.

Abroad, Salesforce and Zendesk have relatively short return on investment periods. Salesforce Through accurate AI algorithm and intelligent customer management system, its products are more in line with customer needs, improve customer satisfaction, and directly promote revenue growth. Zendesk Through intelligent customer service and automatic chemical single system, we not only optimize the customer service process, but also improve the customer retention rate, thus promoting the steady revenue growth.

For these companies, although the initial introduction of AI technology requires a large investment, with the technology maturity and market expansion, the return on investment gradually increases, and the enterprise can reap long-term returns.

4.3. The Enlightenment and The Reference of The Case

AI-enabled SaaS (Software as a Service) software has become a key factor for many enterprises to enhance their competitiveness and optimize operational efficiency and customer service. With the continuous development of technology and the deepening of its application, more and more enterprises have achieved remarkable results by introducing artificial intelligence technology and enabling SaaS software. Through the analysis of some successful cases, we can summarize the key factors of the success of AI-enabled SaaS software, and extract the experience for other enterprises. Here are the success factors and replicable experiences extracted from real cases, which are highly instructive for companies that are or are preparing to empower AI.

(1) Key factors to success

The success of AI-enabled SaaS software often depends not solely on the technology itself, but on how the technology is integrated with enterprise needs and market trends. According to different case analysis, the successful AI-enabled SaaS software mainly includes the following key factors:

A. Precise technology application

Successful AI-enabled SaaS software can accurately apply AI technology and improve the core functions according to the actual needs of enterprises and market changes. For example, Salesforce, through its Einstein AI platform, uses AI to analyze customer data, provide personalized recommendations and accurate sales forecasts, thus helping the sales team improve sales efficiency and customer

satisfaction. Einstein The AI model can make a comprehensive analysis based on the customers historical behavior data, market trends, social interaction and other information, so as to provide more accurate sales opportunities and strategies for sales personnel. This precise application of technology not only improves the work efficiency of the sales team, but also helps enterprises to improve customer engagement, which in turn drives profitability growth.

In addition, the precise application of AI is also reflected in the personalization of services and products. The goal of SaaS software is to help enterprises optimize the business in an area, therefore, the AI functions of SaaS software must be adjusted and optimized to adapt to customer needs. For example, through AI deep learning and analysis of customer feedback, usage habits and needs, SaaS software can provide customized solutions that enable customers to use the software in the most suitable way, so as to improve customer experience and enhance the attractiveness and market competitiveness of products.

B. Data-driven decision support

AI-enabled SaaS software can provide decision support for enterprises through data analysis and help them make more accurate decisions. For example, platforms such as Dingding and Tencent Cloud help companies make smarter decisions in management, operations and marketing through powerful data analysis functions. Dingding analyzes employee work efficiency and communication patterns through AI to help enterprises optimize team management and workflow; Tencent Cloud provides personalized cloud services and solutions by analyzing customer usage data and behavior patterns.

The power of AI is its ability to analyze huge amounts of data and extract valuable insights from it. Through AI-enabled SaaS software, enterprises can monitor and analyze market dynamics, customer demand changes, product usage and other information in real time, providing scientific decision-making basis for the management. Data-driven decision support not only improves the accuracy of decision-making, but also helps enterprises to seize market opportunities, optimize resource allocation, and improve operational efficiency.

C. Continuous technical optimization and iteration

AI enabling SaaS software is not achieved overnight, but a process of continuous optimization and iteration. Successful SaaS software companies typically constantly optimize their AI algorithms and adjust in practice according to customer feedback and market changes. For example, Salesforce and Zendesk have always focused on user feedback during the development of their AI capabilities, and have improved service quality and customer satisfaction by continuously optimizing their algorithms and models. Salesforce By continuously learning customer data, the Einstein platform constantly adjusts and optimizes the sales forecast and customer recommendation system to ensure always accurate service.

Zendesk By continuously optimizing its AI customer service robot, the robot can more accurately understand user needs, provide real-time help, and seamlessly connect with human customer service in complex service scenarios. This continuous technical iteration and optimization enables AI-enabled SaaS software to maintain high market competitiveness and provide customers with continuously improved service experience.

(2) Replicable experience

From the above successful AI enabling SaaS software cases, some key experiences can be extracted, which are not only applicable to enterprises such as Salesforce, Dingding, Tencent Cloud and so on, but also applicable to other enterprises that want to enable AI. Here are some replicable lessons from this experience:

A. Pay attention to customer needs, customized development

AI-enabled SaaS software must be customized according to the actual needs of customers. Enterprises should have a deep understanding of customers industry background, business processes, pain points and needs, and develop and optimize AI functions based on this information. For example, in the retail industry, AI can help SaaS software provide inventory management, sales forecasting and customer behavior analysis, while in manufacturing, AI can provide services such as equipment maintenance forecasting and production scheduling optimization based on data from production lines. If enterprises can customize AI technology according to customer needs, they can provide customers with higher value services and win customer recognition and long-term cooperation.

In addition, customization is not only about function adjustment, but also about the optimization of user interface design and operation process. AI-enabled SaaS software should be able to adjust the software interface and interaction mode according to customers usage habits and workflow, so as to make it more humanized, reduce customers learning costs and improve user experience.

B. Emphasis zed data collection and analysis

Data is the foundation of AI technology, and a successful AI-enabled SaaS software must rely on high-quality data. When implementing AI empowerment, enterprises must pay attention to data collection, cleaning and analysis. First of all, enterprises should ensure the diversity and comprehensiveness of their data sources, covering customer behavior data, product use data, market change data, etc. Secondly, enterprises also need to clean and sort out the data to ensure the accuracy and consistency of the data. Only on the premise that the data quality is guaranteed, can AI draw accurate conclusions in the analysis, and provide effective decision support for enterprises.

Through big data analytics, AI can help companies identify potential problems, optimize processes, and predict trends. Enterprises should strengthen the construction of data analysis ability, use AI technology to extract valuable information in the data, and provide data support for the decision-making level.

C. Optimize the user experience and improve customer engagement

Both at home and abroad, successful AI-enabled SaaS software attaches great importance to user experience. In a highly competitive market environment, user experience often determines customer loyalty and product reputation. Through AI technology, SaaS software can be continuously optimized according to customers use data and feedback, providing personalized services and support.

For example, through AI analysis of customers behavior habits and needs, SaaS software can automatically push the functions and services most suitable for customers, reduce the operational complexity of users, and improve customer satisfaction. At the same time, AI can also improve customer use efficiency through intelligent customer service,

automated operation and other ways, reduce customers dependence on manual services, and further improve customer stickiness.

When optimizing the user experience, SaaS software should focus on the collection and analysis of customer feedback, and keep the product innovative and adaptable by regularly updating and adjusting the product functions. Problems and challenges encountered by customers in the process of use should be quickly feedback and solved to enhance customer trust and loyalty.

As can be seen from multiple successful cases, the key factors for the success of AI-enabled SaaS software include accurate technology application, data-driven decision support, and continuous technology optimization and iteration. Through precise application of AI technology, SaaS software can provide enterprises with more personalized solutions for enterprises; through data analysis, AI can provide accurate decision support and optimize resource allocation; and through continuous optimization, AI-enabled SaaS software can adapt to the changes of market and customer needs and remain competitive.

At the same time, the replicable experience of AI-enabled SaaS software includes focusing on customer needs, emphasizing data collection and analysis, optimizing user experience, etc. These experiences can help other companies avoid some common pitfalls in implementing AI empowerment, improve technology applications, and improve customer satisfaction and loyalty. With the continuous maturity of AI technology, AI-enabled SaaS software will play a great potential in more industries in the future, promote enterprises to achieve more efficient and precise operations, and finally achieve long-term and stable business growth.

5. Factors Affecting the Return On Investment of SaaS software

SaaS (Software as a Service), as a software delivery model based on cloud computing, has become the core part of enterprise information construction in recent years. Especially with the rapid development of artificial intelligence technology, more and more enterprise SaaS software can further improve the operational efficiency, reduce costs and optimize the customer experience through the integration of artificial intelligence technology, so as to enhance the market competitiveness. However, the return on investment (ROI) of SaaS software is not static, but is influenced by multiple factors, mainly including technical factors, market factors, management factors, and user factors. This section will analyze in detail these influencing factors and their role on ROI.

5.1. Technical Factors

(1) Maturity and innovation of AI technology

The technology maturity of artificial intelligence directly affects the performance and stability of SaaS software, thus affecting the return on investment of enterprises. With the rapid development of deep learning, natural language processing, image recognition and other technologies, the application of artificial intelligence in SaaS software has gradually deepened. The maturity of technology is reflected in its ability to different enterprise scenarios, the accuracy of the algorithm and the stability of the system. If AI technology is still in its early stages, it may lead to problems such as

system errors, slow response, and inaccurate prediction, which will increase the operating costs of enterprises and reduce the rate of return.

However, the innovation of the technology reflects what unique features the SaaS software can provide. For example, AI-based intelligent customer service, data prediction and analysis, automation workflow and other functions can bring significant efficiency improvement to enterprises, reduce human intervention, and then improve the return on investment. If SaaS software can lead the industry in innovation and continue to provide new solutions, the enterprises competitiveness will be significantly improved, thus increasing the ROI.

(2) Matching degree between technology and enterprise needs

Even if the AI technology itself is relatively mature, the return on investment may still be depressed if the technology of SaaS software does not match the actual needs of the enterprise. For example, some businesses may focus on data analytics and decision support, while others may need more automated management or intelligent customer service. If SaaS software cannot provide customized technical support according to the needs of different enterprises, the investment efficiency of enterprises will be affected. Therefore, the matching degree of technology and enterprise demand is one of the key factors affecting the return on investment. High matching degree can ensure that the software gives full play to its advantages, meet the specific needs of enterprises, and improve the overall efficiency of enterprises [5].

5.2. Market Factors

(1) Market size and demand trend

Market size and demand trend are the important external factors affecting the return on investment of SaaS software. With the increasing demand for digital transformation, the market demand for SaaS software is expanding worldwide. Especially with the help of artificial intelligence, SaaS software can provide enterprises with more efficient and accurate solutions. Therefore, the growth of market size can directly boost the sales volume and revenue of SaaS software, thus improving the return on investment.

In addition, the trend of market demand is also crucial. Whether an enterprise can accurately predict and grasp the change of market demand determines the timeliness and effect of its investment. If the SaaS software can adapt to the market trends in time, bring forth the new, and meet the new needs of customers, it can maintain the competitiveness, increase the market share, and thus bring a higher rate of return.

(2) Competitive environment and product differentiation

In the SaaS software market, the competitive environment is increasingly fierce, especially when artificial intelligence technology is widely used, all kinds of SaaS software have innovated in function and performance, trying to stand out. When enterprises invest in SaaS software, if the selected software has high differentiation characteristics and can provide unique solutions, it is easier to take the lead in the competition. Product differentiation can not only enhance customer engagement, but also improve returns through higher pricing strategies, thus improving return on investment.

At the same time, the intensity of the competitive environment also affects the return on investment. If there are multiple SaaS software with similar functions in the market, and the competitors are relatively strong, then enterprises may

need to invest more resources in marketing, technology research and development, so as to increase the investment cost and reduce the rate of return. Therefore, when choosing SaaS software, enterprises must fully consider the differentiation degree of their competitive environment and products.

5.3. Management Factors

(1) Project management ability and execution ability

Investment in SaaS software is not only about choosing the right technology and products, but also requires strong project management capabilities and execution capabilities. Project management can ensure that the implementation, operation, maintenance and other links of SaaS software are completed on time and with good quality, and avoid the decline of investment return caused by delay or inefficient implementation. In the implementation process, the project manager needs to reasonably plan resources, control risks and coordinate personnel from all parties to ensure the smooth progress of the project. Lack of effective project management will increase the risk of project failure, resulting to investment loss, which in turn affects the rate of return.

(2) Support from talent and organizational structure

The successful implementation of SaaS software is closely related to the talent support of enterprises. When choosing and using SaaS software, enterprises often need a team with certain technical ability and business understanding ability to support their operation. Both IT technicians and business analysts need to have a certain knowledge of artificial intelligence technology, so as to make full use of the advantages of SaaS software and improve operational efficiency. Therefore, the impact of enterprise talent reserve and organizational structure on the return on investment of SaaS software cannot be ignored.

If the enterprise does not have enough technical personnel or lack the appropriate organizational structure to support the introduction and operation of SaaS software, then it may face difficulties in the implementation process, and even affect the application effect of the software, thus reducing the return on investment.

5.4. User Factors

(1) User usage habits and acceptance

The return on investment of SaaS software is closely related to user habits and acceptance. AI-enabled SaaS software often requires users to change the original workflow and use habits, especially when the user first contact, may face learning costs and adaptation period. If employees lack confidence or acceptance of new technology, it may lead to poor use of software, or even resistance, which will affect the application effect of SaaS software, and ultimately affect the return on investment.

Therefore, in the promotion process of SaaS software, enterprises need to fully consider the training and adaptation of employees, to help users smoothly transition to the new working mode, in order to improve the user experience and acceptance.

(2) User feedback and product improvement

User feedback plays a crucial role in improving the return on investment of SaaS software. Through user feedback, enterprises can find out the problems and deficiencies in the software in time, and make corresponding improvements. The application of artificial intelligence technology can further improve the adaptability and flexibility of products, make

personalized adjustments according to the needs of users, and optimize the performance and function of the software. If the SaaS software can be continuously optimized and updated according to user feedback, then user satisfaction will be significantly increased and customer engagement will increase, thus driving corporate revenue growth and improving return on investment.

SaaS (Software as a Service) software As an important tool of modern enterprise information transformation, its return on investment (ROI) often determines the continuous investment and use of the software decision. With the rapid development of artificial intelligence technology, more and more enterprises begin to rely on AI-enabled SaaS software to improve operational efficiency, optimize customer service and enhance market competitiveness. However, to achieve the ideal return on investment, it is not enough to rely solely on technological innovation and increased market demand. Companies also need to use a range of strategies to optimize software applications, reduce costs, increase customer value, and ensure sustained earnings growth. This paper will discuss the specific strategies to improve the return on investment of SaaS software from the three aspects of optimizing the application of artificial intelligence technology, cost control and benefit maximization, successful customer management and long-term mechanism.

6. Strategies for Improving the Return On Investment of SaaS Software

6.1. Optimize the Application of Artificial Intelligence Technology

(1) AI applications focusing on the core business needs

The primary strategy to improve the ROI of SaaS software is to optimize the application of AI technology, especially to focus AI technology on the core business needs of the enterprise. The power of AI does not mean that it can be applied to all scenarios, so companies need to conduct in-depth analysis of their core businesses and identify which links that most need AI empowerment.

For example, in the retail industry, SaaS software can use AI technology to make accurate inventory prediction, demand analysis, personalized recommendation, etc., to help enterprises improve operational efficiency and sales. For manufacturing, AI can optimize production scheduling, quality testing and predictive maintenance to reduce costs and downtime. Therefore, enterprises should give priority to AI applications that can directly improve efficiency or reduce cost according to their own industry characteristics and actual needs. This AI application focusing on core business needs can not only improve the efficiency of SaaS software, but also improve the use value of users, thus bringing higher return on investment for enterprises.

(2) Enhance the accuracy and applicability of AI models

In today's highly digital and intelligent era, artificial intelligence technology (AI) has become a key force to promote enterprise innovation and improve efficiency and competitiveness. Especially in the application of SaaS (Software as a Service) software, the introduction of AI has brought significant business value to enterprises, helping enterprises to make breakthroughs in operation, data analysis, customer service and other aspects. However, the practical application effect of AI technology largely depends on the accuracy and applicability of the AI model behind it. If the AI model does not accurately reflect the needs of the enterprise

or adapt to a specific business environment, the enterprise may not be able to obtain the desired return on investment. Therefore, when selecting and using AI-enabled SaaS software, enterprises must pay special attention to the accuracy and applicability of AI models, and adopt effective optimization strategies.

A. Data quality management: to ensure the reliability and accuracy of data sources

Data quality is the cornerstone of the AI model, which directly affects the training effect and practical application performance of the AI. In many enterprise SaaS software application scenarios, data is the core resource for AI model training and decision support. Therefore, enterprises must first ensure the reliability and accuracy of their data to ensure that AI models can be efficiently trained based on high-quality data.

Data integrity: Companies must ensure that the data collected is complete and covers sufficient dimensions and depth. Missing data or incomplete data can lead to the lack of accurate training basis of the AI model, which will affect the prediction effect of the model.

Data accuracy: Ensure no errors in the data entered into the AI model. For example, customer information, transaction data, operation logs, etc., all need to ensure that there is no wrong input, duplicate data, or artificial bias. These errors can affect the prediction results of the AI model and lose its value.

The consistency and standardization of data: Data from different channels or systems is often not in uniform format or redundancy, and enterprises need to clean, standardize and unify these data. This process will ensure that the AI model can be trained on consistent, standardized data to improve its effectiveness.

Timeliness of data: The timeliness of data is also extremely important. Outdated data may lead AI models to ignore current market trends or user behavior when trained, and thus reduce the predictive power of the model. Companies need to update their data pools regularly to ensure that the data always reflects the latest market environment and business operations.

By strengthening data quality management, enterprises can not only improve the basic quality of AI model training, but also reduce the errors and deviations caused by data problems, to ensure that the application of AI technology to achieve the best effect.

B. Continuous learning and adjustment: to make the AI model adapt to business changes

One of the advantages of AI technology is its strong learning and adaptability. Through continuous learning and adjustment, the AI model can continuously optimize its own decision-making process and adapt to the changes and development of the enterprise business. However, if the AI model is not updated or adjusted for a long time, it may become "outdated" and unable to adapt to new business needs or changing market environment. Therefore, continuous learning and adjustment are an important means to improve the accuracy and applicability of AI models. Continuous learning and adjustment methods include:

Regularly update and optimize the model: AI models usually go through a training stage, which includes data input, feature selection, model training and other processes. In practical applications, enterprises need to regularly update and optimize their AI models to meet new business challenges and environmental changes. For example, factors such as customer behavior, market demand, and competitive pattern may change over time, and enterprises must update the model

to ensure the effectiveness of their predictions.

Real-time data feedback and adjustment: In order to more accurately reflect the market changes, enterprises can use the real-time data feedback mechanism to input the new data into the AI system in real time, so that the model can quickly adjust and make real-time predictions. This real-time feedback mechanism can help companies maintain sensitivity to market and customer needs, thus ensuring that the AI models always adapt to a rapidly changing environment.

Automatic adjustment mechanism of models: With the development of artificial intelligence technology, more and more AI models have automatic adjustment function. For example, the neural networks in deep learning can automatically adjust the parameters through the back-propagation algorithm to improve the accuracy of the model. Companies can use such technology to enable AI models to optimize themselves, reduce human intervention, and improve overall efficiency.

Through continuous learning and adjustment, AI models can constantly adapt to new business needs and environmental changes in the long-term operation, ensuring that enterprises can always obtain accurate prediction and decision support.

C. Cross-industry reference: improve the accuracy and generalization ability of AI models

The application of artificial intelligence technology is not limited to specific industries. More and more cross-industry reference has become an important way to improve the accuracy and generalization ability of AI models. Many AI models have succeeded in specific areas, but best practices in these areas can often be migrated to other industries to improve the effectiveness of the model. Through cross-industry reference, enterprises can not only improve the accuracy of AI models, but also expand the application boundary of AI technology and enhance the generalization ability of the models. The specific ways for cross-industry reference include:

Learn best practices in other industries: For example, in the retail industry, AI models are often used to predict customer buying behavior and optimize inventory management. These technologies can be learned from other industries, such as manufacturing, financial industry or medical industry. By integrating the AI application experience of other industries into the model of the industry, enterprises can accelerate the application and implementation of technologies.

Integrating multi-field data: Another important aspect of cross-industry reference is to enrich the training basis of AI models by integrating data from different fields. For example, data from the financial industry and the e-commerce industry can be integrated through certain technical means to help AI models improve the accuracy and reliability of predictions. Through this data fusion, the AI model can not only learn more dimensions of information, but also improve its adaptability to multiple industry scenarios.

Cross-industry cooperation and innovation: More and more enterprises are starting to conduct cross-industry cooperation to share technology and resources to promote the innovation and optimization of AI models. For example, the cooperation of technology companies with finance, healthcare and other industries can jointly study and develop AI models to improve their application scope and accuracy.

Through cross-industry reference, AI model can learn more successful experience of industries, enhance its adaptability and generalization ability, and bring more application

scenarios and investment returns for enterprises.

6.2. Cost Control and Revenue Maximization

(1) Streamline the development process and reduce costs

In the development and operation process of SaaS software, the development cost is often one of the key factors affecting the ROI. In particular, the introduction of artificial intelligence technology may lead to the extension of the technology research and development cycle and the increase of resource investment. To maximize the return on investment, companies must take effective steps to streamline the development process and reduce costs.

First, adopting agile development mode can effectively improve development efficiency and reduce unnecessary waste of resources. Through continuous small steps and fast iteration of products, enterprises can launch SaaS software that meets the market demand in a shorter time, thus saving the development cycle and cost.

Secondly, enterprises can transfer some of the technology development work to a professional team through outsourcing and cooperative research and development, so as to reduce the burden of the internal team. In addition, with open-source tools and existing AI platforms, enterprises can reduce the cost of developing from scratch and improve resource utilization.

Finally, in the development process, enterprises should pay attention to the design of software architecture, adopt modular and scalable architecture, so that the software function in the later expansion, can be completed more efficiently, without large-scale reconstruction work. This approach to streamlining the development process can not only reduce development costs, but also accelerate time-to-market time for products and improve ROI.

(2) Precision marketing and customer customization

In a modern business environment, the success of an enterprise depends not only on the speed and quality of technological innovation, but also on how to accurately understand and meet customer needs. With the continuous progress of artificial intelligence technology, precision marketing and customer customization have become an important strategic means for SaaS (Software as a service) enterprises to increase revenue. With AIs analytical capabilities, SaaS software can not only achieve more efficient marketing, but also provide tailored services and solutions for each customer, so as to improve the purchase conversion rate and life cycle value of customers, and thus promote the long-term stable growth of the enterprise.

A. Precision marketing: Optimize marketing and customer acquisition through AI

Precision marketing is an important strategy for enterprises to improve marketing efficiency, reduce customer acquisition cost and improve sales performance. Traditional marketing methods often rely on experience and intuition, and advertise and promote to a wide range of people. Although such practices can cover a large number of potential customers, it is often difficult to really impress customers and guide them to buy due to the lack of personalization. The application of AI technology has made precision marketing possible.

The power of artificial intelligence technology lies in its ability to analyze the large amount of data and gain insight into the behavior, preferences, needs and purchasing habits of users, so as to provide more accurate marketing solutions for enterprises. Through big data analytics and machine learning, companies can do so to:

Identifying potential customers: The AI can analyze customer behavior at multiple contact points, such as browsing history, search records, social media interactions, past purchases, etc., to help companies identify which customers are more likely to turn into paying users. This allows marketers to focus on the customer groups most likely to generate revenue and improve the efficiency of customer acquisition.

Personalized recommendation and advertising push: AI provides personalized product recommendations for customers according to their historical behaviors and preferences. For example, SaaS software companies can push advanced features or new products related to customers based on the features and frequency they have used in the past, thus increasing customers purchase intentions. Through personalized advertising and marketing content, enterprises can attract customers in the most appropriate way at the right time and improve the marketing effect.

Optimizing the effectiveness of marketing campaigns: AI can also monitor and analyze the effectiveness of marketing activities in real time and quickly adjust strategies based on feedback. For example, AI can automatically optimize advertising content, delivery platform, delivery timing, etc. through A / B testing, to ensure that marketing activities can maximize attracting target customers and improve ROI (return on investment). This automated optimization process greatly improves the efficiency of enterprise resource utilization in marketing.

Through precision marketing, enterprises can use resources more efficiently, reduce marketing costs, and improve customer acquisition and conversion rates.

B. Customer customization: to provide customized solutions according to customer needs

Customer customization means that enterprises adjust their products or services according to the needs and characteristics of different customers to ensure that the unique needs of customers are met to the greatest extent. For SaaS software, customer-customized services can not only help enterprises stand out in the fierce market competition, but also enhance customer loyalty and improve the value of customer life cycle.

With AI technology, SaaS software can provide personalized services at multiple levels:

Customize according to business scenarios: each enterprise has different operation methods and requirements, and AI technology enables SaaS software to provide tailored functions according to the customers business scenarios. For example, in the medical industry, SaaS software can provide customized patient management systems, medical data analysis tools, etc. according to the specific needs of hospitals, while in the retail industry, SaaS software can provide customized functions related to inventory management, sales forecasting, customer relationship management (CRM), etc. This deep customization can help customers to better solve practical problems, improve their use value, and thus improve customer satisfaction and loyalty.

Adjust according to the data structure and demand characteristics: different customers have different data structure and use requirements, and AI technology can make personalized adjustment according to the specific data characteristics of customers (such as data volume, data type, data processing mode, etc.). By analyzing customers data flow and data mode, AI can recommend the most appropriate data analysis methods, algorithm models and visualization methods, helping customers to use data more efficiently and

improve the decision-making effect.

Continuous optimization and adjustment: AI can not only customize services according to the initial needs, but also dynamically adjust as customer needs change. Customers business development, market changes, technology updates and so on may affect their needs. AI models can always adapt to the latest needs of customers through continuous learning and self-adjustment. For example, if a customer expands its business, SaaS software can expand its capabilities according to new requirements, or provide more advanced analytics tools. This continuous optimization of service mode can help enterprises to establish longer-term relationships with customers and reduce customer loss.

Through customer customization, SaaS enterprises can improve customer satisfaction, enhance customer engagement, thus extend the customer life cycle, and continuously increase revenue levels.

C. Reduce customer turnover rate and improve customer loyalty

Customer loss is a big challenge for enterprises, especially in the SaaS industry. Customer loss not only means the decrease of revenue, but also may affect the market reputation and competitiveness of the enterprise. Through precision marketing and customer customization, SaaS software can effectively reduce customer churn, improve customer loyalty, so as to achieve long-term and stable revenue growth.

Accurate customer demand forecast: Through AI analysis of customer behavior, enterprises can predict the potential risk of customer loss. For example, if a customer does not log in for a long time, reduces the frequency of use, or is no longer interested in some features, AI can identify this trend in advance, trigger customer care or directional push related content in time to help customers reactivate their use. This precise churn prediction can help companies take interventions in advance to reduce the customer churn rate.

Improve customer engagement and satisfaction: By providing personalized products and services, SaaS software can enhance customer engagement and satisfaction, and enhance customer loyalty. Satisfied customers are more likely to continue buying and use SaaS software and even recommend to other potential customers. This positive customer feedback can not only promote the long-term use of existing customers, but also attract more new customers.

D. Profit maximization: to enhance the value of the customers life cycle

Customer life cycle value (CLV) is an important indicator to measure the depth of the relationship between customers and the enterprise, which directly affects the long-term profitability of the enterprise. One of the ultimate goals of precision marketing and customer customization is to increase the customer life cycle value and drive revenue growth by maximizing customer payment potential and service utilization.

Increase the average revenue of a single customer: Through precision marketing, SaaS enterprises can provide relevant value-added services or functions to customers, increasing the average revenue of each customer. For example, through customized functional packages and professional services, enterprises can maximize customer needs and increase additional revenue.

Enhance customer long-term value: Customized services and precise marketing can not only improve customer short-term purchase conversion rates, but also ensure that customers maintain high activity and payment ability

throughout their life cycle. By providing continuously updated services and functions, enterprises help customers achieve higher business results, thus extending the user cycle of customers and enhancing their long-term value.

6.3. Successful Customer Management and Long-Term Mechanism

(1) Establish a customer success team and customer lifecycle management

Successful customer management is another important strategy to improve the ROI of SaaS software. The use of SaaS software is not only a one-time transaction, but also a long-term service process. To ensure that customers consistently gain value, companies need to build a dedicated customer success team responsible for customer lifecycle management.

The core responsibility of the Customer Success Team is to help customers achieve business goals and maximize the value of the software. The team can help customers through regular training, technical support, business consultation and other ways to better understand and use SaaS software, and solve the problems encountered by customers in the use process.

By establishing a customer life cycle management mechanism, enterprises can better track customer demand changes and usage, and provide timely help and support. This can not only improve customer satisfaction and loyalty, but also reduce customer churn rate, thus improving the return on investment.

(2) Improve user experience and engagement through data drive

Data-driven decisions are an important way to improve the ROI of SaaS software. Enterprises can collect and analyze the various data of users in the process of using SaaS software, and deeply understand customers behavior habits, demand changes and pain points, so as to optimize the functions and services of the software.

For example, based on user data, enterprises can adjust the interface design, function Settings and operation process of SaaS software, so as to make it more in line with user needs and improve user experience. Through continuous data analysis and feedback cycle, enterprises can improve customer engagement and satisfaction, thus reducing user churn and improving long-term revenue.

In short, data-driven can help enterprises achieve more accurate user experience optimization and enhance user value, thus bringing higher return on investment for SaaS software.

7. Conclusions and Outlook

7.1. Main Research Conclusions

(1) The potential for return on investment improvement from AI-enabled SaaS software

AI technology enables SaaS software, significantly improving corporate return on investment (ROI). Through automated workflow, intelligent analysis, customer relationship optimization and other applications, AI technology can help SaaS software significantly improve efficiency, reduce costs and improve customer satisfaction, thus promoting revenue growth. The introduction of AI technology enables SaaS software to provide personalized solutions and data-driven decision support for enterprises, greatly enhancing the market competitiveness and customer stickiness of the software. For example, automated customer

service and intelligent predictive analysis through AI technology not only reduces labor costs, but also can accurately predict market trends and customer needs, providing more accurate decision basis for enterprises, and further improving the return on investment.

In addition, AI-enabled SaaS software can accumulate long-term value. With the continuous optimization of technology and changing customer needs, enterprises can extend the customer life cycle and enhance the long-term value of each customer through continuous technology upgrading and personalized service. Therefore, AI-enabled SaaS software can not only improve the operational efficiency and profit of enterprises in the short term, but also provide sustained revenue growth in the long term through fine management and customer customization services, and further enhance the return on investment.

(2) Key success factors and challenges

The key factors to the success of AI-enabled SaaS software include the accurate application of technology, data-driven decision support, continuous technology optimization, and customer customization services. Companies need to ensure that AI technology can match their business needs and market trends to improve the core functionality of the software. For example, AI can improve customer satisfaction and business efficiency by providing personalized recommendations, sales forecasting, and automated decisions through extensive analysis of extensive data.

However, the AI-enabling SaaS software also faces some challenges. First, the maturity of technological innovation and application directly affect the stability of software and user experience. The accuracy and applicability of AI technology are the key factors affecting ROI, especially in the training and optimization stage of the model. It fails to accurately reflect the needs of the enterprise, which may lead to inefficient decision support and wasted resources. Secondly, when introducing AI technology, enterprises face high initial input cost and continuous optimized technology input, which requires sufficient capital and technical support to obtain positive returns in the long term.

7.2. Insufficient Research and Further Research Direction

(1) Limitations of this study

Although this study provides a comprehensive analysis of ROI of AI-enabled SaaS software, there are some limitations. First, this study mainly relied on the case analysis and the evaluation of the quantitative data, and failed to fully cover all industries and types of SaaS software. SaaS software in different fields may face different market environments and technical requirements, so the impact of AI empowerment on return on investment may have large industry differences. Secondly, the research focuses on the application effect of AI technology, but fails to deeply explore the specific operational difficulties and management challenges involved in the implementation process of technology. There is relatively little discussion on the management and technical preparation required for implementing AI enabling SaaS software, especially the talent reserve and organizational structure adjustment.

(2) The expansion direction of the subsequent research

Future research can be further expanded to more industries and diversified types of SaaS software, to explore the effect and application differences of AI technology empowerment in different enterprise sizes and industry environments. For

example, we can further analyze how AI capabilities can improve the business functions and customer value of SaaS software to help companies achieve a higher return on investment in specific markets.

In addition, future studies can more deeply explore the practical difficulties of AI empowerment, especially in terms of technology implementation and personnel training. The introduction of AI technology is not only about technical innovation, but also involves the management model, staff training and the restructuring of business processes. By further analyzing the challenges and coping strategies of enterprises in the process of implementing AI-enabled SaaS software, future research can provide more operational suggestions for enterprises and help them smoothly transition to a new era of intelligent management and decision-making.

Finally, with the continuous development of AI technology, future research should focus on the sustainable development of AI-enabled SaaS software and the establishment of long-term mechanisms. This involves not only the continuous optimization of AI technology, but also the protection of data privacy and the predictability of long-term investment returns. By combining more diverse data analysis and deep learning technologies, follow-up research can provide a more comprehensive evaluation framework for AI-enabled SaaS software, further promoting the realization of digital transformation.

Overall, AI-enabled SaaS software has significant ROI improvement potential, but companies face technical

challenges and management costs. By optimizing the application of AI technology, focusing on differences in industry needs, strengthening data-driven decision support, and establishing long-term sustainable operation mechanisms, enterprises can make full use of the advantages of AI-enabled SaaS software to achieve long-term business growth and efficient operations.

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