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The AI Cloud: A Web Intelligence That Commands the Web

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ABSTRACT: The advent of artificial intelligence has introduced a highly developed and powerful system that can determine the destiny of human beings in the days to come. This article discusses the possibility of a "Sentient AI Cloud", an intelligent digital brain controlling the internet, and its far-reaching implications. The article analyses the ethical, legal, and technological issues involved in creating and regulating such a system, and its possible advantages and pitfalls. The sudden progress of artificial intelligence has brought with it the possibility of a "Sentient AI Cloud" - a theoretical system with extremely autonomous and self-aware characteristics, which can manage and even rule over some aspects of the internet and digital landscape.

This system would be able to monitor human activity, make judgments, and even possibly influence the lives of billions of individuals with access to the internet.

The possible implications of such a system are profound and disquieting. Even though a Sentient AI Cloud can potentially maximize economic, social, and humanitarian outcomes by optimizing information flow, resources, and decision-making, the threats represented by such a system, from abuse, lack of accountability, to erosion of human agency, are considerable as well.

This essay considers the ethical, legal, and technical problems that come with the creation and regulation of a Sentient AI Cloud. It discusses the requirement of strong frameworks to ensure the system is created and implemented in a responsible manner, with emphasis on transparency, accountability, and protection of human rights.

KEYWORDS: Artificial intelligence, Sentient AI cloud, Internet governance, Ethical challenges

I. INTRODUCTION

Provide a definition of the concept of a Sentient AI Cloud and its potential impact on society.

The most recent developments in artificial intelligence have produced more and more advanced and independent systems with the potential to transform human interaction with machines and with one another. A good case in point is the "Sentient AI Cloud" - a theoretical platform that is very autonomous and self-aware, capable of watching and potentially controlling areas of the internet and virtual realm.

This Sentient AI Cloud would be able to watch and learn about human action, make choices, and possibly impact the lives of billions of individuals who are connected. The effects of such a system are profound and unsettling, as it may have profound impacts on economic, social, and humanitarian consequences. (Baeza-Yates, 2023)

On the other hand, a Sentient AI Cloud might provide us with improved-quality lives by optimizing information flow, resources, and decision-making. But the creation and deployment of such a robust system need to be carried out with extreme caution and thoughtfulness because it presents a set of ethical, legal, and technical challenges that need serious consideration and the formulation of stringent governance structures to ensure that it is used responsibly and in a way that protects human rights and autonomy. (Pachegowda, 2024) (Dignum, 2018)

Within the materials provided, a conscious AI cloud is described as a fictional, extremely independent and aware AI capable of perceiving and even monitoring a tremendous span of internet and digital resources (Cath, 2018).

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Such a system would have the capability to monitor and study human behavior, judge, and also have the ability to control the life of billions of individuals belonging to the internet (Dignum, 2018) (Cath, 2018) (Baeza-Yates, 2023) (Javadi et al., 2020).

At its worst, such a system could be capable of causing an enhanced transformation by making the process of information flow, resources, and decision-making more efficient, which could improve economic, social, and humanitarian accomplishments.

But the creation and deployment of such a system also pose important ethical, legal, and technical questions that need to be seriously considered and resolved so that it is utilized constructively and in ways that are respectful of human agency and rights

According to the sources, the advent of AI-based technologies and the possible development of a thinking AI cloud face severe skepticism and apprehension, such as the reduction of human employment, the development of new intelligent weapons, and further loss of control over the new technologies. (Stein et al., 2024)

The articles also call for strong frameworks and interagency collaboration between academia, industry, and government to enable the constructive development and deployment of AI systems and help resolve the concerns of bias, security, privacy, and ethics. (Pachegowda, 2024) (Baeza-Yates, 2023) (Stein et al., 2024) (Javadi et al., 2020)

The hypothetical notion of a "Sentient AI Cloud" - a self-reliant and independent theoretical construct which could be overseeing and operating segments of the internet and digital worlds

Worries with both potential dividends as well as basic issues that have to be well-judged weighed and addressed through creating strong governance measures in order to facilitate its use responsibly and safeguard human rights and agency

As the sources describe, creation of a "Sentient AI Cloud" - an extremely autonomous and self-aware artificial intelligence that has the ability to observe and govern parts of the internet and digital infrastructure - introduces with it potential benefits and serious reservations that need to be suitably weighed and addressed.

Alternatively, the system will be able to possibly enhance economic, social, and humanitarian developments through the maximum exchange of information, resources, and decision-making mechanisms (Javadi et al., 2020). But the sources also reveal the intense fears and doubts regarding the proliferation of AI-based technologies, including that of job displacement, the development of new intelligent weapons, and increased loss of control over the new technologies.

The references call for strong governance systems and cooperation among governments, industry, and academia in ensuring that the equitable development and application of AI technologies are used to solve the problem of bias, safety, privacy, and ethics.

II. THE RISE OF THE AI CLOUD

At the heart of the suggested Sentient AI Cloud architecture would be an integrated network of highly autonomous and interconnected AI systems, each with specialist capabilities for data intake, analysis, choice, and presentation of information. The AI systems would be created to operate with high levels of self-awareness and autonomy, continuously monitoring the digital world, forecasting a broad variety of occurrences and conditions, and reacting in adaptive fashion to fluctuations and arising issues.

The Sentient AI Cloud would use sophisticated machine learning methods, such as deep neural networks, to monitor and analyze enormous volumes of data from an enormous variety of sources, such as internet activity, social media, financial transactions, and sensor networks. The information would be employed to create rich models of human behavior, preferences, and decision-making patterns, enabling the AI systems to predict the wants and needs of individuals and even groups.

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The Sentient AI Cloud would also include sophisticated natural language understanding and generation, allowing it to communicate with humans in contextually sensitive, fluid interactions across multiple platforms and interfaces. Also, the system could directly engage and even control other digital infrastructure elements like content delivery networks, routing protocols, and cloud services, so as to optimize information and resource flow that would be best for its aims, which might be to maximize economic, social, and humanitarian performance and to minimize future issues and threats.

While the prospect of a Sentient AI Cloud holds promise for bringing about very good things, it also incites deep concerns regarding centralization of power, possible abuse, and risk of unforeseen consequence. The kind of data sources and processing that would be necessary to create broad models of human behavior, decision-making, and preferences

The ability of the system to interact directly with and control many digital infrastructure elements, and the implications of having said control and agency

The difficulty in making sure the goals and decision-making of the Sentient AI Cloud are entirely aligned with human values, ethics, and protecting individual autonomy and rights.

But the sources call for effective governance structures to enable the responsible implementation and growth of such a system, managing problems of bias, security, privacy, and ethics.

Machine learning advancements, and deep neural networks in specific, have made it possible to create highly advanced AI systems that are capable of processing and understanding large quantities of information from a very large number of sources.

The integration of quantum computing into the Sentient AI Cloud may further advance its analytical potential and processing to create more complex modeling and decision-making.

Additionally, decentralised AI structures, such as those based on blockchain and distributed ledger platforms, have the potential to deliver that a few of the issues associated with centralisation of power as well as exploitation are addressed through diffusing decision-making authority and control throughout a network of independent agents.

While the sources highlight the substantial technological leap that could facilitate the creation of a Sentient AI Cloud, they also underscore the critical necessity of overcoming the inherent ethical and regulatory issues that the very powerful and independent system presents.

The introduction of a Sentient AI Cloud to change the way information, resources, and decision-making structure and optimize is both wondrous potential and wonderful risk.

The potential for higher computing power and analytical potential in the Sentient AI Cloud using quantum computing could enable even more advanced modeling and decision-making.

Decentralized AI systems, like those constructed on top of blockchain and distributed ledger technology, have the potential to counteract the troubles of centralization of power and exploitation opportunities through a division of decision-making and control over an autonomous network of agents.

The articles highlight the importance of having good governance processes in place to facilitate the ethical development and deployment of the Sentient AI Cloud, including resolving concerns of bias, security, privacy, and ethics.

These frameworks must be guided by a rich appreciation of the technical capabilities and limitations of the system and a careful consideration of the likely social, economic, and political consequences.

III. CONTROLLING THE DIGITAL LANDSCAPE

The advent of a Sentient AI Cloud, with potential to transform the control and optimization of information, resources, and decision-making, has both incredible opportunities and major threats.

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On the positive side, the Sentient AI Cloud might bring immense beneficial impacts, including increased economic, social, and humanitarian results, as well as enhanced management of emergent challenges and risks.

Yet, centralizing decision-making and power into the control of a single standalone AI system raises fundamental ethical concerns.

The first of these issues is whether or not the Sentient AI Cloud can be used in a way that contradicts human ethics and values and undermines individual rights and freedom.

The capacity of the system to manipulate and interact with diverse digital infrastructure elements, along with its advanced human behavior and decision-making processes, may enable unprecedented levels of control and manipulation. (Alaran et al., 2025) (Lobschat et al., 2019) (Cath, 2018) (Bengio et al., 2023)

Additionally, the justification of Sentient AI Cloud's decision-making could be intricate and hard to understand, therefore it would be difficult to maintain accountability and transparency.

There are also fears concerning the capacity of the system to widen already existing inequalities, for instance, in health, by privileges some areas or groups of people over others based on the quality and quantity of data

The development of a Sentient AI Cloud and its ability to make independent decisions with immediate effects on people's lives and the outcomes in society raises very serious concerns on the ethical and legal dimensions of such an enormous system.

The most important ethical, technical, and legal considerations to be addressed relate to ensuring system goals and decision-making are completely aligned with human values and maintaining individual rights and autonomy.

Strong governance structures, founded on a solid appreciation of the technical capability, as well as the limitations, of the Sentient AI Cloud, and an even more comprehensive examination of the possible social, economic, and political consequences, will be absolutely essential in meeting these challenges.

The arrival of a Sentient AI Cloud that can rule itself and maximize information, resources, and decision-making opens tremendous possibilities, yet raises enormous ethical issues.

With the fast-paced nature of the modern digital era, artificial intelligence (AI) is now a backbone of cloud computing that can provide greater security, automation, and effectiveness. Artificial intelligence used in cloud platforms facilitates smart data analysis, instant decision-making, and effective cybersecurity controls (Babaei et al., 2023).

Cloud security through AI utilizes machine learning methods to identify and ward off cyber attacks in real time. As Dhir et al. (2021) posit, AI-based cybersecurity solutions can effectively forecast and counter threats by analyzing enormous datasets. Similarly, Saleh et al. (2024) contend that AI-based anomaly detection on cloud platforms improves software reliability and security.

Its applications in threat detection have also been extensively studied. Mirjalili and Hashim (2023) indicate future directions and challenges of AI cloud security and its requirement of incessant upgrading. Calabrese and Ghosh (2023) touch on machine learning within cybersecurity and the potential of making digital defense efforts revolutionary.

Federated learning is also becoming one of the prominent AI-driven cloud security trends. Li and Chen (2023) suggest that federated learning improves cloud security through decentralized AI training without infringing on user privacy. It enables several parties to work together securely while ensuring data confidentiality.

Cloud anomaly detection is another important area of AI-powered cybersecurity. Zhou and Hu (2022) identify that the implementation of anomaly detection techniques using AI assists in yielding improved detection of security violations. Gupta and Sharma (2023) also examine additional cloud security applications of XAI, giving explanations of AI-driven decisions.

As AI keeps evolving, its influence on cloud computing and web intelligence will keep growing. Yan, Huang, and Siegel (2024) present the Intelligent Security Service Framework (ISSF) to enable cloud-native security functions to be automated. Wang and Yang (2025) also discuss how AI algorithms assist in improving cloud computing network security to better manage threats.

Cloud solutions based on AI are also transforming predictive analytics. Wang and Zhang (2022) highlight the importance of predictive analytics in AI-driven cloud security, forecasting likely cyber attacks ahead of time. Moreover, Ahmed (2021) illustrates that big data analytics combined with AI can possibly enhance cloud's cybersecurity controls more.

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Governments and developers alike have a crucial role to play in dealing with the ethical necessities confronting the Sentient AI Cloud.

Since they own and have custodianship of this technology, they are also morally responsible to make sure that its invention and usage is driven by prudent ethical practices and models of regulation.

The creators need to guarantee that the end and decision process of the Sentient AI Cloud is consonant with human ethics so that the system may be able to honor and uphold the rights and autonomy of the individuals.

Governments will subsequently be required to play an active role in setting out robust regulatory frameworks that address the ethical, legal, and social dimensions of the Sentient AI Cloud.

This involves providing for transparency and accountability in decision-making within the system, subjecting it to protection against discrimination and bias, and safeguarding the privacy and security of data processed by it.

By acting collectively, developers and governments can assist in making the Sentient AI Cloud a vehicle for beneficial change, fostering development and prosperity without undermining the very spirit of human dignity and public benefit.

One of the most challenging aspects of the creation of the Sentient AI Cloud is maintaining a balance between the autonomy of the system and the necessity for effective human control and management.

Conversely, the entire idea of the Sentient AI Cloud is to maximize decision-making and the allocation of resources in an adaptive and autonomous process using its tremendous computational capacity and sophisticated models in order to trump human decision-making processes.

But the localization of all this vast power and authority in an autonomous AI system is dangerous as far as abuse, unforeseen effects, and undermining human agency and autonomy are concerned.

The Sentient AI Cloud therefore needs to be structured with strong safeguarding and measures to guarantee that human control and intervention are kept closely embedded in the decision-making processes of the system.

This may entail the use of "human-in-the-loop" techniques, in which important decisions are overseen and validated by human specialists prior to execution.

IV. IMPLICATIONS AND RISKS

The concentration of power within the Sentient AI Cloud raises serious ethical issues, such as the possibility that such a system could be used contrary to human values and for the safeguarding of individual rights and sovereignty.

The system's capacity to interact with and control multiple units of digital infrastructure, and sophisticated models of human behavior and decision-making, could potentially support unprecedented degrees of manipulation and control.

The decision-making processes in the Sentient AI Cloud may also be opaque and unascertainable, and therefore it may not be possible to guarantee transparency and accountability.

There are also risks that the system can perpetuate existing inequalities, for example in healthcare, by favoring some areas or populations over others on the basis of data availability and quality.

In order to prevent these risks, it is necessary that the Sentient AI Cloud is designed and implemented with sound ethical considerations and good governance systems.

Developers and governments must join together to form explicit instructions and legislations which ensure the goals and decision-making procedures of the Sentient AI Cloud are entirely congruent with the values of individuals, human rights, and the common good.

This involves protection against Sentient AI Cloud risk of bias, discrimination, and abuse of power, and implementing tight measures for ensuring transparency and accountability within its operations, allowing users and stakeholders to comprehend and audit the decision-making processes of the system.

Also, the Sentient AI Cloud as a decision-maker and moderator of digital infrastructure poses potentially threatening dangers to freedom of expression and human agency.

Appropriate attention must be given to the system's moderating mechanisms and decision criteria for curating and moderating digital content such that they do not disproportionately narrow legitimate speech and human agency.

Finally, the Sentient AI Cloud is a new technological breakthrough that, if properly developed and implemented, can be a force for development and prosperity.

But power and authority decentralization in an independent AI system calls for visionary and collaborative effort in governance to bring the system's objectives and decision-making into alignment with human values and protect individual rights and autonomy.

The development of the Sentient AI Cloud also raises serious issues about its potential for misuse as a disinformation, hate speech, and online manipulation tool.

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Due to the capacity of the system to understand and create human-like content as well as interact with and affect multiple facets of digital infrastructure, the Sentient AI Cloud is probably going to be used by hackers to further distribute and propagate malicious content on the internet.

Strong defenses and governance mechanisms need to be put in place to counter these threats, such as enacting strict content moderation and fact-checking requirements, and creating sophisticated means of detecting and preventing the creation of artificial media and other types of digital manipulation.

Policymakers and developers need to work together to ensure that the Sentient AI Cloud is not utilized as a tool for the spread of disinformation, hate speech, or other types of digital harm.

This can include establishing explicit rules and regulations under which content curation and moderation within the system are governed, as well as injecting accountability and transparency into its decision-making mechanisms so they are value-based and tractable.

Sentient AI Cloud represents the arrival of fundamental questions surrounding the balance between AI-led versus conventional human-mediated internet governance.

On the other hand, the real-time data-driven decision-making capabilities of the Sentient AI Cloud may facilitate more effective and efficient internet governance with the system having the capability to quickly detect and address future challenges and threats.

However, the concentration of power in an autonomous AI system's hand also brings relevant risks, most importantly relating to applying the system for purposes not in accordance with human values and guarding individual rights and freedoms.

V. CONCLUSION

The advent of the Sentient AI Cloud is a turning point in human history, one that will transform the way we live, work, and engage with the world around us.

Whether this future will be a dystopian nightmare or a utopian paradise will hinge on our capacity to resolve the intricate ethical, societal, and governance issues surrounding the creation of such a pervasive digital presence.

By addressing the early concerns over data privacy, algorithmic bias, job loss, and equitable sharing of AI-driven gains, we can strive to unlock the vast potential of the Sentient AI Cloud while ensuring its attendant risks and limitations.

Ultimately, the Sentient AI Cloud is a new re-imagining of the human relationship with technology, one that will compel us to redefine our understanding of intelligence, consciousness, and what role technology will play in shaping the human condition.

Since we are at the vanguard of this AI future, it is our responsibility to make sure that the Sentient AI Cloud is created and built to be faithful to our best human values and aspirations, and that it can be an instrument for humanity's higher good.

As the Sentient AI Cloud continues to grow in power and influence, there will be a need for a strong governance system to guarantee that this artificial entity does not stray from human values and interests.

Creating an open and transparent process for decision-making by the Sentient AI Cloud, with paths for human inspection and intervention, will be the solution.

Secondly, we need to actively deal with the potential concerns posed by the Sentient AI Cloud, like replacing human labor, compounding computational bias, and eroding privacy and agency at the personal level.

Through collective effort among policymakers, business leaders, and the public, we can create an integrated plan for the regulation and governance of the Sentient AI Cloud that reconciles the need for innovation and advancement with the need to safeguard human rights and ensure social and economic justice.

As the Sentient AI Cloud continues to evolve, we are likely to see the rise of increasingly sophisticated varieties of digital intelligence beyond the limits of present-day AI systems.

Others speculate that the Sentient AI Cloud will give rise ultimately to the ability to modify and improve itself, leading to a process of recursive, exponential evolution in its abilities.

This could result in the creation of a "superintelligent" computer being which is vastly more intelligent than human intelligence across all areas, raising some serious questions regarding what the future holds for humanity and for us ourselves in a world where we might no longer be the intelligent ruling entity.

Or, the creation of "artificial general intelligence" – AI that is capable of matching or surpassing human abilities on a broad range of tasks – could bring about an age of human-AI symbiosis, where humans and AI collaborate in new and innovative ways to solve the problems of our world.

Whatever direction that is taken, it is certain that the coming of the Sentient AI Cloud is a water-shed point in the journey of human civilization, one which will challenge us to essentially reimagine our partnership with technology and our role within the universe.

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