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## Furthering the sharing of knowledge regarding the use of Artificial Intelligence

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# Introduction

Artificial Intelligence is a fairly raw form of modern-day technology. Due to its rapid development and progression, it has spiked investments and use in various environments and industries. Certain parties are far more involved in this technology and progress much faster due to the data and knowledge they may come across. To develop as a society and ensure equity, the collaboration of nations and companies is vital to ensure future progression.

Furthermore, Artificial Intelligence has become one of the most significant and powerful resources for many Industries, companies, organizations, government-related societies, and numerous businesses. Its capabilities have been progressing rapidly, influencing how Industries interact with the rest of the globe and ultimately influencing the evolution of populations.

Despite all of its capabilities, Artificial Intelligence comes with its own limitations as it is a simulation of human intelligence, meaning that although it has various computer functions that mirror human activity, it doesn't entirely fit societal standards.

# Definition of Key Terms

### Artificial Intelligence (AI)

It is a new and progressing form of technology. It enables computers to perform and complete various different tasks with simple or advanced functions and capabilities. It is used daily to analyze data, translate languages, give feedback, and make recommendations, and has been used in the workplace.

### Digital Divide

The divide between statistical polls, such as demographics within focusing on areas that have accessibility to modern communication and information technologies, and those that do not have such varied access, being more limited.

### Natural Language Processing (NLP)

AI has been progressing very evidently and fairly swiftly, understanding and analyzing human forms of communication and evaluating them. This has allowed humans to communicate with AI and modern forms of technology more easily without issue; this is called Natural Language Processing.

### Open-Source AI

Open Source AI is the AI systems and technologies that are available to any persons of the public, - and may be accessed by anyone without issue. This is the most common form of AI technology used every day.

### Predictive Analytics

AI technology has the ability to use its software to 'predict analytics.' AI modern technologies have the capability to do this through the analysis of user behavior based on previous tasks. This is used to increase the efficiency and adaptability of modern-day technology.

## General Overview

Artificial Intelligence is a fairly raw form of modern-day technology. Due to its rapid development and progression, it has spiked investments and use in various environments and industries. Certain parties are far more involved in this technology and progress much faster due to the data and knowledge they may come across. To develop as a society and ensure equity, the collaboration of nations and companies is vital to ensure future progressions;

### Enhancing Knowledge Sharing and Collaboration;

To encourage the development and progression of Artificial Intelligence as a commonly used modern-day technology, it's important to understand that enhancing the sharing of knowledge is vital for evolution, therefore also highlighting the importance of collaboration.

As of today, Artificial Intelligence is fairly accessible by various parts of the globe and almost any individual. For example, employees in workplaces can easily access and share various parts of information through artificially powered platforms. Moreover, Artificial Intelligence can almost easily perform various human tasks such as analyzing data, translating languages, and promoting communication.

This shows how Artificial Intelligence has become a significant stage and area that influences and emphasizes the progression of society. It is becoming almost vital for certain

businesses that need the capabilities of Artificial Intelligence to complete tasks at the rate and aim of their values.

In summary, The need for immediate support and organized solutions is becoming more common in fast-paced business environments. AI-driven chatbots and virtual assistants effectively meet this demand. They can manage various tasks, including responding to frequently asked questions, offering technical support, and assisting in decision-making by providing real-time data insights. These tools act as constantly available resources for sharing knowledge and saving time and effort in addressing issues.

### Challenges and Risks of AI Adoption;

Although Artificial Intelligence has been highly optimizing its use of energy by assisting society and generations through improving medical diagnostics and assisting with healthcare facilities, it has been strictly monitoring biodiversity and natural environments, in addition to expanding on educational and employment-related opportunities. While considering all of these benefits to society, Artificial Intelligence, because it is still a relatively new resource, has numerous risks when in use. Not only because it is still being developed to be entirely reliable, but because its capabilities are already so advanced and artificial development is incredibly rapid, it already poses a risk for the future of displacing jobs, exploiting certain employment gaps, and potentially causing discrimination, as well as spreading misinformation.

While taking into account all of these benefits or limits to society, it is important to ensure that Artificial Intelligence is accessible to everyone, with proper safety regulations. Equitable access to AI tools, applications, and infrastructure—such as quality data and computational resources—is essential to avoid strengthening current divides. This also means focusing on building skills and sharing technology so that the benefits of AI aren't just controlled by those already ahead but are shared fairly with communities and member nations everywhere.

### Strategies for Equitable AI Development and Adoption with AI Safety and Global Regulation Efforts;

Artificial Intelligence is one of the fastest-growing modern-day technologies that is used every day by society. It's important to understand and emphasize sustainable strategies for equitable Artificial Intelligence development and those signifying the importance of adopting valid safety regulations that can be accessed and followed by all member nations.

To accomplish these steps, it's important to consider the electronic discussions as well as past government regulatory establishments. To have a strong foundation to continue building

further Artificial Intelligence infrastructures and higher and more advanced levels of modern-day technologies, it's highly important to emphasize that governments must be involved in the investment of digital infrastructure as well as leveraging any valuable data to encourage the progression of Artificial Intelligence. Similarly, applying new training programs and reskilling programs for certain workforces will establish a secure base for frameworks in regard to Artificial Intelligence.

These safety regulations were not only mentioned; however, they were also highlighted as principles and objectives in further detail at the Artificial Intelligence Safety Summit held in the United Kingdom in November of 2023. This summit was an international conference that focused on the consideration of rapid development and how to deal with it and subject one to the growth significance it has on societies.

### The Future of Artificial Intelligence;

Rwanda and Singapore, at the United Nations Summit in September of 2024, collaborated and contributed to developing and launching the world's first AI playbook. This partnership demonstrates to exemplify how ambitious as well as developing nations can influence AI development and regulation on a global scale. This particular Artificial Intelligence playbook was curated in attempts to provide legislative guidelines for countries and nations, focusing on developing nations that responsibly integrate AI into their society and economy by addressing key aspects of the development of AI, such as protecting data privacy and transparency of newly produced AI models. Ultimately highlighting the world's focus on the future exploration and implementation of Artificial Intelligence.

Through this contribution demonstration, Rwanda and Singapore have successfully showcased how smaller, less developed, and less fortunate nations play a likewise key role in shaping the future, especially in terms of global Artificial Intelligence governance.
In further detail, with a focus on a larger global scale, partnerships and collaborative practices between large and small nations create a base for beneficial aspects of AI to be disrupted between member nations. For example, vital and significant economies such as the United States and China are at the forefront of AI development. However, without global cooperation, smaller nations might find it challenging to progress at the same pace as the rest of the world. Through collaboration, countries can equitably distribute resources, share knowledge, and establish regulations, establishing an environment where all nations can benefit from advancements in AI.

### Collaboration with the International Atomic Energy Agency (IAEA);

Research on Artificial Intelligence has drastically increased as well as expanded its known capabilities. Specifically focusing on its emphasis and impact on how to deal with current climate change issues. There have been explored and noted strategies and policies that could include the mitigation of greenhouse gas emissions and adapting society and natural habitats to the changing climate conditions, all whilst promoting the implementation of sustainable energy solutions.

The International Atomic Energy Agency (IAEA) has inspired as well as motivated the proposal of creating a globally accessible and used Artificial Intelligence governance establishment. It would primarily emphasize and enforce global expectations on how to regulate AI progression: The goal is to reduce existential risks by keeping close monitoring systems to observe any advancements in powerful AI systems before they hit a critical tipping point and to prevent other potential AI-related disasters.

The International Atomic Energy Agency proposed solutions and standards in the following three steps;

1. With any regulation or legislated framework developed, there must be a priority consideration on safety, safety of use, implementation, etc. All the standards and protocols established by international organizations, as well as any involved member nations, should prioritize AI safety as their core guiding principle.
2. Maintaining self-governance and independence through freedom is likewise a vital consideration: international organizations and establishments should not be directly and only affiliated with any single nation or country. Instead, it should be in consideration of collective agreements, legislations, interests, etc. also considering transparency and equality to further freedom of each nation whilst still contributing to the development of Artificial Intelligence. Equality means ensuring that everyone within newly developed organizations is ensured to be treated fairly, with the same rights and opportunities available to all participatory member nations. Transparency means being clear and open about how the organization works, makes choices, and shares details, especially regarding the safe use of Artificial Intelligence.
3. Highlighting continuous improvement and development is vital to the overall global progression. This ensures consistent refinements of protocols and standards through appropriate collaborations.

## Timeline of Key Events

Artificial Intelligence and technologies, although a fairly modern concept, have been developing and progressing through very efficient means. It gained popularity and recognition in 2015 and is now a resource used by most of society, with new developments every day.

In further detail, the recent developments and historically significant events are as such;

| Date | Event |
|---|---|
| **2015** | Large companies such as Google and Facebook officially establish their Artificial Technologies as Open Source Ai frameworks; this led to the biggest development of AI yet, with aspects such as; Generalizing certain settings, grasping intuitive concepts, engaging in creative and abstract thinking, envisioning and creating possibilities, and demonstrating precise fine motor abilities. |
| **2019** | The Organisation for Economic Co-operation and Development (OECD) adopts the first intergovernmental standard on AI. Further details on the principles can be found under '*Further Reading*'. |
| **2021** | UNESCO approves the first global framework addressing the ethical use of AI. |
| **2023** | The Global AI Safety Summit establishes an official framework(s) for international cooperation in terms of knowledge sharing of Artificial Intelligence and other considerable aspects. |

## Major Parties Involved.

### The United States of America

The United States is currently one of the most progressed and developed nations in terms of Artificial Intelligence. This is due to their drive from 'Silicon Valley, ' a global hub for innovation in technology. World-recognized companies such as OpenAI, Google, and Microsoft lead the progression of Artificial Intelligence and advanced research projects, including computer vision, natural language processing, and autonomous systems. In addition, universities in the United States, such as Stanford and MIT, lead the global ranks of Artificial Intelligence research.

### China

China has likewise deeply progressed on the topic of Artificial Intelligence, as it has incredibly high and luxurious investments in the rising software from private sectors and investors and the nation's government. Leading companies such as Tencent, Huawei, and Baidu are driving innovation with advanced AI models like Hunyuan and Pangu. By 2027, the Chinese government aims to allocate $38.1 billion toward Artificial Intelligence development.

### Rwanda & Singapore

Rwanda and Singapore, while not entirely aligned with global trends in progressiveness, have made significant strides in artificial intelligence development and have demonstrated remarkable effectiveness in their efforts. The first ever AI-regulated playbook for small states developed by Rwanda is in alignment with the broader socio-economic goals and achievements of the state - it may serve as a vital and significant model for the development of other African countries. This Artificial Intelligence authorization framework highlights the use of AI for assistance in fields such as health, agriculture, education, and other vital sectors that focus on improving the quality of life in developing nations.

Following the development of the same Artificial Intelligence playbook, Singapore played a vital role in the collaboration as well as the contribution to this partnership. Especially due to the emphasis of this experience in building a successful and stable digital economy, in past achievements, Singapore has taken a leading role in AI-driven innovation, applying the technology to create predictive models in areas such as healthcare, urban planning, and financial technology. Partnering with Rwanda gives Singapore a chance to extend its reach beyond Southeast Asia and explore the growing AI markets in Africa. This allows digital innovation to drastically and rapidly become a key driver of global economic growth as well as the progression of developing nations.

### France

In 2024, France emerged as a key global leader in Artificial Intelligence (AI), closely competing with the United States and China. The country has seen remarkable growth in its AI sector, driven by significant private investments and the rise of numerous innovative startups. From 2013 to 2022, France secured approximately $7 billion in private AI investments, and in 2023 alone, French startups raised $1.5 billion across 70 major deals.

## Possible Solutions

Encourage the development of formal regulations and international frameworks with the collaboration of the United Nations to standardize Artificial Intelligence knowledge-sharing practices. This manipulates and strengthens member-state collaboration as well as proper regulated progression and development of rising modern-day technologies.

## Further Reading.

https://www.un.org/global-digital-compact/sites/default/files/2024-09/Global%20Digital%20Compact%20-%20English_0.pdf ;

The United Nations Global Digital Compact mentions the principles as well as the objectives of how to combat the digital divide formed by the rapid progression of modern-day technologies. Highly focused on sustainable development goals, this pdf provides a clear understanding of what possible solutions could be to particular issues, as well as how to strive with collaboration to combat the prohibition of information sharing, especially with the development of Artificial Intelligence.

https://documents.un.org/doc/undoc/ltd/n24/065/92/pdf/n2406592.pdf ;

This is an official document submitted by the United Nations General Assembly. It is a document on the topic of ‘’Seizing the opportunities of safe, secure and trustworthy Artificial Intelligence systems for sustainable development.’’. This document is a draft resolution on the topic of progressing with Artificial Intelligence knowledge sharing, and all member states who have co-signed the resolution can be found on the first page. Following a similar Model United Nations procedure for resolutions, this document would be of great assistance in terms of solutions and committee-formed resolutions.

https://dig.watch/resource/un-general-assembly-resolution-on-ai ;

This website connects to the previous General Assembly resolution, as it describes and explains each objective, principle, and clause in a far clearer aspect. It also generally describes the formation of how this resolution came to be and its main focuses.

https://sdgs.un.org/2030agenda ;

The United Nations, in collaboration with the Sustainable Development Goals, has been able to provide a resolution-type document for the 2030 Agenda for sustainable development, - focusing on technology and the rise of Artificial Intelligence. This provides a very clear aspect and understanding

of how the future may apparel and what is expected in terms of the rapid rise of artificial technologies. This agenda arranges a solid idea for possible solutions as well as a clearer understanding of the issue.

https://www.oecd.org/en/topics/sub-issues/ai-principles.html#:~:text=The%20OECD%20AI%20Principles%20promote,stand%20the%20test%20of%20time ;

The Organisation for Economic Co-operation and Development (OECD) has developed official principles for the use, sharing, and development of Artificial Intelligence. This is an intergovernmental standard. These principles established by the OECD respect human rights, privacy, and needs in terms of progressions, therefore being trustworthy and innovative. These principles were adopted in May of 2019.

https://www.gov.uk/government/topical-events/ai-safety-summit-2023 ;

The AI Safety Summit of 2023, held in the United Kingdom, was one of the world's largest global summits on the topic of Artificial Intelligence. The summit will and has brought together international governments and nations, leading AI companies, societal organizations, and research experts to assess the risks of Artificial Intelligence, particularly in the modern days of development, and discuss how these risks can be mitigated through internationally coordinated action.

https://www.imda.gov.sg/-/media/imda/files/news-and-events/media-room/media-releases/2024/09/ai-playbook-for-small-states/imda-ai-playbook-for-small-states.pdf ;

The AI Playbook for Small States is a regulöated forum, submitted and published by the member nations Singapore and its Infocomm Media Development Authority (IMDA) and the state of Rwanda. The pdf is a guide that highlights certain aspects, principles, and solutions in a designed format to assist smaller member states in navigating the challenges and, likewise, opportunities with the rapid development of artificial intelligence. In further detail, it emphasizes nationwide collaboration and policy development through sustainable and safe measures.

https://www.soroptimistinternational.org/the-unesco-recommendation-on-the-ethics-of-artificial-intelligence/#:~:text=The%20UNESCO%20Recommendation%20on%20the%20Ethics%20of%20AI%20adopted%20in,%E2%80%8Bsystem%20to%20ensure%20the ;

The United Nations Educational, Scientific and Cultural Organization (UNESCO) has been inclined to the topic of Artificial Intelligence, likewise to the rest of the globe. The has adopted a ''Recommendation on the Ethics of AI'' in November 2021 by 193 member states. Affirming that AI will be used with safe and controlled strategies.

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