



Artificial Intelligence as a Tool for Peacebuilding

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Abstract:

In this article I discuss possible applications of some of these advanced AI technologies in the peace building and conflict resolution field. Second, AI can lead to new concepts of peacebuilding like creating conflict transformation and cooperation between dissimilar parties/actors. But AI can help to assimilate such large volume of data in making communication more real time it is practicable that it could encourage dialogue and the building of consensus in conflict situations which might enable better peace dividends. AI tools promote greater inclusion because there are so few physical barriers such as those imposed by traditional dialogue processes and therefore more voices can be brought more easily into the process of building peace.

Working on the statistics, analysis and simulations offered by the AI technology, it is possible for these actors to adopt proactive strategies to solve conflicts in short term/offer sustainable and resilient long-term solutions on stricken communities. The paper will call for the responsible use of opportunities "born" out of AI for peace, stating that it has to find a "balance" between commercial opportunities and risks associated with AI. If done responsibly, leveraging AI for peacebuilding could fundamentally change the way in which peace is built and achieve a more sustainable and equitable end to conflict. And we need to develop a regime, right now, to maximize all of the good that AI will produce and minimizing the harm it can do while promoting its potential for peace, in common cause with other emerging technologies. This would entail a set of comprehensive policies to control ethical use of AI in conflict resolution, developing trusted relationships among stakeholder groups and accountability related to the use of AI tools in support of peacebuilding.

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الذكاء الاصطناعي كأداة لبناء السلام

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الملخص:

تناقش هذه الورقة البحثية كيف يُمكن لبعض تقنيات الذكاء الاصطناعي أن تُحدث نقلة نوعية في حل النزاعات وتحقيق السلام المستدام. يُمكن للذكاء الاصطناعي أن يكون عاملاً مُحَقِّزاً لتطوير أفكار جديدة لبناء السلام، مما يُعزز كفاءة إدارة النزاعات والتعاون بين مختلف الأطراف/الجهات الفاعلة. إن قدرة الذكاء الاصطناعي على تحليل كميات هائلة من البيانات وإتاحة التواصل الفوري يُمكن أن تُسهّل الحوار وبناء توافق الآراء في حالات النزاع، مما قد يؤدي إلى نتائج أفضل للسلام. تُتيح أدوات الذكاء الاصطناعي مشاركة أوسع دون القيود المادية التي قد تُفرضها عمليات الحوار التقليدية، مما يسمح بإشراك المزيد من الأصوات في جهود بناء السلام.

من خلال قوة تحليلات ومحاكاة الذكاء الاصطناعي، يُمكن لأصحاب المصلحة وضع استراتيجيات استباقية تُعالج النزاعات بفعالية على المدى القصير مع ضمان الاستدامة والمرونة على المدى الطويل في المجتمعات المتضررة. تدعو الورقة البحثية إلى الاستخدام المسؤول للفرص التي سيُتيحها الذكاء الاصطناعي من أجل السلام، مُضيفاً أنه يجب إيجاد "توازن" بين الفرص التجارية للذكاء الاصطناعي ومخاطره. إذا أُدير بشكل صحيح، يُمكن لدمج الذكاء الاصطناعي في بناء السلام أن يُغير طريقة بناء السلام بشكل كامل، ويُساهم في نهاية أكثر استدامة وعدلاً للنزاع. بالإضافة إلى ذلك، نحتاج إلى إنشاء هياكل حوكمة تُقلل من الضرر المحتمل للذكاء الاصطناعي، وتُحسن إمكانياته في بناء السلام، وتحمي الصالح العام التكنولوجي. وهذا يستلزم صياغة سياسات تُوجّه الاستخدام الأخلاقي للذكاء الاصطناعي في حل النزاعات، وبناء الثقة بين أصحاب المصلحة، وضمان المساءلة عن تطبيقات الذكاء الاصطناعي في عمليات بناء السلام.

ستكون هناك حاجة إلى أطر حوكمة واضحة للاستخدام المسؤول والعاقل للذكاء الاصطناعي في بناء السلام، ولتعزيز استخدام التقنيات الحديثة لما فيه خير

السلام والأمن العالميين. إن التركيز على الأخلاقيات يُمكننا من تحقيق أقصى استفادة من الذكاء الاصطناعي مع تجنب هذه المخاطر.

الكلمات المفتاحية:

الذكاء الاصطناعي، بناء السلام، حل النزاعات، الأخلاق، التكنولوجيا.

المقدمة

Introduction

AI's effects on peacebuilding could be transformative by enhancing communication, streamlining conflict analysis and facilitating collaboration among stakeholders. The use of AI technologies will offer new ways for peacebuilders to design solutions that have a more focused approach to addressing the underlying tensions and sustainable social responses in conflict-ridden regions. With imprecise collective en masse deliberation, people need to be able discuss with their community real time in which peacebuilders can have an insight of the perspective and consensus from variety conflict situation through AI tool ⁽¹⁾. It enhances communication and it results in better decision making. Furthermore, AI applications also improve early warning systems, which allow for a more proactive response in order to avoid conflict spirals⁽²⁾.

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A, Using Artificial Intelligence for Peacebuilding, (2022), 254, <https://doi.org/10.1177/15423166221102757>.

(2) . Mandokhail, A. W. K, The Transformative Role of Artificial Intelligence in Conflict Resolution and Peacekeeping. NUST Journal of International Peace and Stability, (2024), 104-8, <https://doi.org/10.37540/njips.v7i1.166>.

Using these technologies, stakeholders will know better and act better in the complex nature of the conflict dynamics. That is what allows for the deployment of AI in Peace Building to both promote efficiency as well as to create a more inclusive manner of dealing with conflict providing for sustainability. In addition, the capability of AI to modify standard ways of dealing with conflicts highlights the necessity of alternative approaches that put more emphasis on long-term peace and security worldwide. We must remain vigilant so that AI remains a tool for peace and does not use them in ongoing tensions or ignite new conflicts. Therefore, AI technologies working together with peacebuilding interventions will lead to more powerful conflict prevention and resolution measures⁽¹⁾.

Striking this balance is critical to deliver on the peace promise of AI and to avoid the risks of AI applications in complex conflict contexts. Addressing these challenges ethically is important to the intersection of AI and peacebuilding, and the way forward is attention to ethics in AI technologies that can reshape the peacebuilding landscape more positively. Given the changing nature of the landscape of AI in peacebuilding, it is equally important to ensure that

(1). Mandokhail, A. W. K. The Transformative, 104-8.

frameworks are in place that maximise the use of AI for peacebuilding and do so in ways that are ethical⁽¹⁾.

1.1 Problem Statement

Notwithstanding significant progress in artificial intelligence, peacebuilding groups continue to lack explicit, context-specific directives for its safe application. Evidence on the efficacy of AI in enhancing early warning systems, mitigating disinformation, or fortifying mediation is still scarce, particularly in contexts characterized by inadequate data and political fragility. Consequently, peacebuilders jeopardize their efforts by utilizing instruments that might misidentify risks, exacerbate prejudice, or undermine community confidence. Concurrently, customized governance frameworks for accountability, data security, consent, and damage mitigation are predominantly lacking. This governance deficiency renders organizations susceptible to exploitation, security violations, and external influences, hence hindering the secure and efficient deployment of AI and jeopardizing the credibility, legitimacy, and enduring efficacy of peacebuilding initiatives.

(1). Giovanardi, M, AI for peace: mitigating the risks and enhancing opportunities. Data & Policy, (2024), e41-e41, 12, <https://doi.org/10.1017/dap.2024.37>.

1.2 Research Objectives

The research critically analyses the potential and limitations of artificial intelligence (AI) in peacebuilding within conflict-affected environments. It aims to understand how AI can support or undermine peace efforts as its application in humanitarian and governance sectors grows. The study outlines five objectives: identifying AI applications in peacebuilding, assessing AI's role in early detection and conflict prediction, examining its use in countering misinformation, analysing the associated risks of deploying AI, and proposing a governance framework for its responsible use. The goal is to provide a balanced evaluation of AI's capabilities and constraints in fragile contexts.

1.3 Research Questions

This research investigates how artificial intelligence can be effectively and ethically employed in peacebuilding. It examines AI's role in enhancing early-warning systems, preventing conflict, reducing misinformation, and curbing online hate speech. Additionally, the study analyzes the ethical, political, and technical risks of AI integration in peacebuilding, while considering necessary governance frameworks and safeguards for responsible and transparent usage.

1.4 Significance of the Study

This study offers a systematic examination of AI-facilitated peacebuilding, enhancing both scholarly dialogue and practical

implementations. It assists policymakers in creating conflict-sensitive technology instruments while providing direction for responsible innovation in the domain.

I. Definition of Peacebuilding

Peacebuilding encompasses a diverse array of strategies aimed at fostering sustainable peace in post-conflict societies, yet its implementation often faces significant challenges. For instance, while the United Nations has outlined a comprehensive framework for peacebuilding, including the importance of national capacities and community involvement, the practical application tends to prioritize state-centric approaches, which can overlook grassroots initiatives that are equally vital for long-term stability. This discrepancy highlights the need for a more nuanced understanding of peacebuilding that integrates local perspectives and recognizes the complex social dynamics at play. Moreover, as the field evolves, it becomes increasingly important to address the qualities of effective peacebuilders and the role of integrative power, ensuring that peacebuilding efforts are not only reactive but also proactive in transforming underlying societal tensions.

Furthermore, the success of peacebuilding initiatives often hinges on the ability to foster inclusive dialogue among diverse community stakeholders, as evidenced by projects like the “Forum for Dialogue and Peace” in Malawi, which emphasizes local involvement as a cornerstone of conflict transformation. This grassroots approach

not only empowers communities but also enhances the legitimacy and effectiveness of peace efforts, creating a more resilient social fabric. Additionally, exploring the qualities of peacebuilders—such as empathy, cultural sensitivity, and adaptability—can significantly influence the outcomes of these initiatives, as they navigate the intricate web of local customs and historical grievances. Ultimately, recognizing the interplay between structural factors and individual agency in peacebuilding can pave the way for more sustainable solutions that address the root causes of conflict rather than merely its symptoms⁽¹⁾.

In addition to fostering local engagement, the effectiveness of peacebuilding initiatives can be further enhanced by embracing a broader conceptual framework that transcends traditional state-centric approaches. This involves recognizing the importance of structural stability and the interplay between local, national, and international dynamics in conflict resolution. For instance, the integration of sub-regional actors and resources can provide critical support to grassroots movements, thereby reinforcing community-led efforts in a manner that is both sustainable and culturally relevant⁽²⁾. Furthermore, as peacebuilding continues to evolve, it is essential to incorporate lessons learned from past interventions, particularly by addressing the root causes of conflict rather than merely alleviating its symptoms; this shift

(1). Andreas Mehler, *The hidden costs of power-sharing: Reproducing insurgent violence in Africa*, 2005, Oxford University Press.

(2). Andreas Mehler, *The hidden costs of power-sharing*.

in focus can significantly improve the resilience of societies emerging from violence⁽¹⁾. By fostering a more holistic understanding of peacebuilding that includes diverse perspectives and collaborative partnerships, we may better equip communities to navigate their unique challenges and build a lasting peace.

Moreover, the role of technology in peacebuilding cannot be understated, as it offers innovative avenues for fostering dialogue and collaboration among disparate groups. Digital platforms, for instance, can facilitate communication and understanding across cultural divides, enabling grassroots movements to gain traction and visibility on a global stage. By harnessing the power of social media and other digital tools, communities can share their narratives and experiences, thereby humanizing their struggles and fostering empathy among broader audiences. This approach is particularly relevant in regions like the Sahel and Horn of Africa, where ongoing conflicts necessitate fresh perspectives and adaptive strategies that leverage local knowledge alongside technological advancements⁽²⁾. Furthermore, integrating technology into peacebuilding initiatives encourages youth participation, which is crucial for cultivating a new generation of peace advocates equipped to challenge entrenched narratives and promote reconciliation.

(1). Gunnar Eliasson, Diplomas, labour market signalling and the allocation of competence on jobs, European journal, vocational training no 16, 1996.

(2). Khalid S Khan, Regina Kunz, Jos Kleijnen, Gerd Antes, Five steps to conducting a systematic review, Journal of the royal society of medecin, volume 96, march.2003.

I.A. Overview of AI Technology

AI can shape future peacebuilding efforts through supporting communication and dialogue and by providing tools for contextualized and informed decisions of actors engaged in complex conflict dynamics. AI Analytics (TAPAI) representatives from TNF, CSOs and NGOs will use the technology to maximize the benefits by contributing to their understanding of subsisting challenges in relation with TNF mission by analytically exploring the unexploited compatibility of technologies with evolving conflict dynamics that are rapidly changing with the development of analytical strategy for ethnonational violent conflict and collaboration. The analytical power of AI helps to collect and analyze large datasets in order to recognize patterns that can inform conflict resolution, thus making peacebuilding efforts more efficient in various settings. Secondly, current trends imply that AI technologies are already integrated into peace building initiatives, and therefore, require a massive understanding of the local contexts and cultural sensitivities in order to be effective and accepted⁽¹⁾.

Having these insights is critical to shaping AI in ways that can engage effectively with communities and align with their needs and values, building trust and mutuality in peacebuilding. This customized application meets sustainability standards; it not only optimizes the relevance of AI applications but also attracts local stakeholders, thus

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

maximizing the impact of the outcome of peacebuilding projects. And such peacebuilding listenership is vulnerably susceptible to adverse machine learning-based mispositions that wrongly affirm certain populations and communities to be enemies—meaning, there must also be ethical considerations to avoid such risks for AI to integrate with peacebuilding initiatives to be as a bestowal and not a burden that divides communities. This focus on ethical concerns is critical in allowing AI technologies to foster trust and understanding between a diverse set of stakeholders while contributing to peacebuilding endeavors⁽¹⁾. Successful implementation of AI not only improves operational efficiencies but also demands constant conversations over regulated norms and ethics, for AI are not a peace builder, only a peacekeeper⁽²⁾.

Artificial Intelligence has the potential to play a major role in peacebuilding in ways that can significantly improve our capability to identify and respond to root causes of tensions, resulting in a more participatory and effective way of conflict resolution (Mandokhail, 2024). Stakeholders can more effectively utilize the insights provided by AI technologies to comprehend the social dynamics in complex

(1). Larrauri, H. P., & Kahl, A. Technology for Peacebuilding. Stability: International Journal of Security and Development, (2013), 1-15, <https://doi.org/10.5334/STA.CV>.

(2). Hirblinger, A. T, When Mediators Need Machines (and Vice Versa): Towards a Research Agenda on Hybrid Peacemaking Intelligence. International Negotiation, (2022), 1-32, <https://doi.org/10.1163/15718069-bja10050>.

crises, which is critical to ensure peace initiatives are designed to address the specific contexts of the communities impacted⁽¹⁾.

AI and Peacebuilding have been identified as an intersection that provides a unique opportunity to the World to use Technology and leverage the ease of communication, understanding and may act as a cornerstone for long-lasting Peacebuilding. In such collaboration, novel approaches to peacebuilding using AI to help develop trust and social cohesion amongst different communities will be enabled. This collaborative framework is critical for creating AI technologies that are not only effective but also aligned with the values and needs of the communities they are meant to serve⁽²⁾.

II. Applications of AI in Peacebuilding

AI applications in making peace can also serve as small-scale dialogue tools, allowing peacebuilders to connect with communities and analyze data that will help inform the strategies of peacebuilding response. This dialogue will be fundamental in driving the AI applications around peacebuilding and at the same time garnering social acceptance by addressing ethical issues through this integrated

(1). Alavi, D. M., Wählich, M., Irwin, C, & Konya, A. Using Artificial Intelligence, 240-43.

(2). Coppi, G., Moreno Jimenez, R., & Kyriazi, S. Explicability of humanitarian AI: a matter of principles. Journal of International Humanitarian Action, (2021), 17. <https://doi.org/10.1186/S41018-021-00096-6>.

feedback mechanism⁽¹⁾. Successfully deploying AI for peacebuilding depends on ensuring that sound frameworks are in place to guarantee that technology is used as an enabler of dialogue and reconciliation, in conflict-affected contexts and beyond. In addition, AI application for peacebuilding programs can remarkably increase the ability to analyse data in real time, which improves the ability of actors to respond to imminent conflict⁽²⁾.

Through the lenses of ethical engagement and a social justice community, AI can be integrated even more effectively into peacebuilding practice in ways that strengthen resilience and promote interaction between varied stakeholders. While the application of AI technologies in peacebuilding is likely to increase due to its operational efficiency, it remains to be seen how these AI technologies will continue to be evaluated for alignment with the ethical norms of the practice of conflict resolution⁽³⁾.

The use of AI in peacebuilding is based on its willingness to abide by ethical values and always seeking to involve stakeholders to ensure that the technology enables dialogue and builds trust from a community-level perspective. AI apps for peacebuilding will help to address social breakdowns by understanding how communities work,

(1). Olsher, D. J. New Artificial Intelligence Tools for Deep Conflict Resolution and Humanitarian Response. *Procedia Engineering*, (2015), 287, <https://doi.org/10.1016/J.PROENG.2015.06.083>.

(2). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

(3). Larrauri, H. P., & Kahl, A. Technology for Peacebuilding, 8.

and what tensions may lie at the core of peace viability to ensure that efforts to address these effectively. Such continued coverage of ethical engagement will be key to ensuring AI technologies not only enable dialogue, but are also a part of long-term peacebuilding successes⁽¹⁾.

II.A. Conflict Prevention

The anticipatory incorporation of AI within the very fabric of conflict prevention approaches enables stakeholders to both recognize as well as mitigate rising tensions, leading to a more resilient and peaceful social climate. AI's role here isn't just about reacting to conflict, but about prevention—something that we are also looking at in our work helping organizations to prepare for future conflict and to mitigate it early. This proactive view stresses the need to leverage the powers of AI to predict and mitigate disputes, making sure that we stay a step ahead in promoting sustainable peace. Using AI-based simulations and predictive modeling can provide a more accurate understanding of conflict dynamics allowing stakeholders to deliver a more specific intervention that creates sustainable peace⁽²⁾.

The proactive incorporation of AI in conflict prevention resonates with the increasing acknowledgment of the ability of AI to transform historic methodologies of conflict management for the betterment of global peace. This means that AI technologies offer

(1). Hirblinger, A. T. When Mediators Need Machines, 1-32.

(2). Mandokhail, A. W. K. The Transformative, 104-8

stakeholders a way to not only respond to, but also preemptively address the underlying tensions, helping build communities that are more resistant to ongoing crises.

Integrating community voices into this collaborative conflict prevention approach means that, in addition to AI being effective, it also helps create stakeholder ownership. Such a collaborative conflict prevention infrastructure will enable communities to actively participate in peacebuilding processes and ensure that the implementation of AI applications are contextualized to local realities and driven towards sustainable peace dividends. Ultimately, the effective integration of AI within these local conflict prevention efforts will require continuous monitoring and tailoring to best meet context-specific needs, rendering technology as an enabler rather than a disruptor of cooperation.

This proactive short-sighted one highlights the need for coupling AI because both local expertises to ensure interventions are culturally competent and effective in addressing the local context to which communities concerning conflict are often subjected. In addition, the successful deployment of AI in these initiatives needs strong frameworks that emphasize ethical standards, such as prioritizing

community input to ensure the technology is used to instil trust and cooperation between stakeholders⁽¹⁾.

This proactive strategy for conflict prevention highlights the essential role of conversation and engagement among stakeholders to integrate pertinent AI technology into peacebuilding initiatives. The efficacy of AI in peacebuilding will hinge on a deep comprehension of both technological capabilities and the socio-cultural contexts in which they operate. This ongoing and accelerated advancement of AI in peacebuilding domain drives home the need for frameworks which not only guide ethical practices but also bolster community involvement and confidence in conflict resolution efforts⁽²⁾.

The future of peacebuilding using AI will continue to be a balancing act between seeking the benefits of these technologies while minimizing their potentially harmful effects and ensuring that they remain ethically appropriate tools in their designated communities. The emergence of AI technologies for use in peacebuilding raises dire implications for inclusivity and ethics; as new interventions become increasingly powerful, it is vital that local practices can maintain attention to complementarity and cultural sensitivity against interventionist pitfalls⁽³⁾.

(1). Mandokhail, A. W. K. The Transformative, 104-8

(2). Müller, H. J., & Dieng, R. On conflicts in general and their use in AI in particular, (2000). 419, <https://doi.org/10.1007/978-3-642-56980-71>.

(3). Olsher, D. J. New Artificial Intelligence, 282-91

II.B. Early Warning Systems

In order to allow the transformation of conflict prevention into something more proactive than reactive, AI-driven Early Warning Systems (CEWS) can be setup to inform early warning periods and provide alerts in a timely manner⁽¹⁾. Artificial intelligence-powered early warning systems help stakeholders identify imminent violence in time to intervene, thereby promoting stability in areas of conflict before they flare into open conflict.

These systems rely on ongoing data processing and community participation to guarantee that responses are timely, context-appropriate, and culturally sensitive and capable of adapting to the unique dynamics of each conflict. Real-time analysis of all data also plays a crucial role in the development of AI-based early warning systems to help in proactive peacebuilding measures that can continuously adapt to changing conflict realities⁽²⁾.

The success of AI-based early warning systems depends on the collaborative efforts of various stakeholders to effectively integrate these technologies into local settings and address the requirements of the communities they serve. By facilitating near real-time dialogues and employing sophisticated analytics, AI technology can significantly enhance early warning systems as a tool for conflict avoidance. By

(1). Bell, C. Conflict Early Warning Systems, (2023), 121, https://doi.org/10.1007/978-3-031-38894-1_9.

(2). Bell, C..Conflict Early Warning Systems, 113-30

incorporating AI-fueled Early Warning Systems into peacebuilding efforts, the potential to augment capacity for proactive response as well as to capture the complexities of conflict interplay, including manifestations of violence, strengthens sustainable peace outcomes⁽¹⁾.

The use of AI in improving early warning systems is indispensable to peace as it affords stakeholders the capability to assess real-time information to act quickly in address tensions where they are found, thereby improving prospect of sustainable peace. For example, AI can make early warning systems much more effective, allowing for identifying conflict triggers and timely interventions that avert the escalation of violence. Advanced analytics can help stakeholders identify emerging tensions and promote collaborative responses better aligned with community needs⁽²⁾.

The early use of AI as a tool for early warning therefore augments potential to prevent conflict, and underlines the need for international collaboration to ensure culturally-aware responses by leveraging local expertise. Eventually, as mentioned by a recent workshop briefing, the successful deployment of AI for early warning demonstrates the important role ongoing community engagement plays

(1). Muggah, R., & Whitlock, M. AReflections on the Evolution of Conflict Early Warning.Stability: International Journal of Security and Development, (2022). 1-16, <https://doi.org/10.5334/sta.857>.

(2). Kimaita, S., & Irungu, E. J, New Frontiers in Conflict Prevention: Integrating Artificial Intelligence in Early Warning and Response Systems in Kenya.International Journal of Research and Innovation in Social Science, (2024), 2331-39, <https://doi.org/10.47772/ijriss.2024.8110185>.

in ensuring greater uptake of technology that effectively meets local needs with respect to peacebuilding and conflict prevention⁽¹⁾.

II.C. Mediation and Negotiation

Peacebuilding approaches, such as mediation and negotiation, are crucial aspects to consider as you integrate the use of AI technologies to improve communication and dialogue between conflicting parties. Its potential uses in mediation and negotiation, in particular, stems from the data-analytic features of AI that enable strategizing, as well as understanding, to be informed by facts relevant to human conflict⁽²⁾.

Utilizing AI technologies, mediators can examine communication trends, highlight shared interests and create customized strategies that align with the respective characteristics of every dispute. The integration not only facilitates the negotiation process but it also enables stakeholders to be more prepared for discussions which contributes to sustainable peace results. the proper act of working AI into mediation and negotiation is a duty, as the technology must enforce rather than undermine trust and coalition among all parties that are involved. It is a commitment to something beyond the technology itself in which the use of AI enhances the mediation process, but does not diminish it indispensable for a more peaceful conducive

(1). Bell, C. Conflict Early Warning Systems, 113-30.

(2). Alavi, D. M., Wählich, M., Irwin, C. & Konya, A. Using Artificial Intelligence, 240-43.

environment. The use of AI in mediation can also greatly enhance the precision of how tensions are evaluated; allowing mediators to develop enhanced conflict-specific methods to each negotiation⁽¹⁾.

Mediation and negotiation through the lens of AI signifies that we have now incorporated AI into the mediation and negotiation process not only to achieve operational effectiveness but on similar lines, also to ensure trust between the mediators and mediators amongst the consumers by capturing the human elements and widening their frontier, thereby leading to the formation of a strong ethical foundation. In particular, we are using new technologies to create enhanced versions of traditional mediation and negotiation processes through AI, for example, we fuel ethical challenges related to the positive and negative biases that AI would naturally craft for such enriched processes⁽²⁾. The use of AI in mediation can be both an opportunity and a threat; a balance needs to be reached between technological progress and ethical concerns to guarantee fair results in conflict resolution.

There is also a need for ongoing evaluation of the moral hazards of AI integration in mediation and negotiation processes; ensuring that AI assists mediation in producing fair and just results potential for AI to Change Mediation Processes reinforces the need for continued research on his ethical implications and practical applications in the

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

(2). Olsher, D. J. New Artificial Intelligence, 282-91.

mediation process in contributions to equitable conflict resolution⁽¹⁾. As AI mediation evolves, it is imperative that it be guided by ethical frameworks that emphasize fairness and inclusivity, and ensure that technology ultimately enhances dialogue and mutual understanding between disputants. An overall AI-assisted mediation with strategies developed for the unique dimensions of each conflict⁽²⁾.

II.D. Post-Conflict Reconstruction

Ensuring the right balance between a human-centric bottom-up and AI-driven top-down holistic approach, addressing the immediate and long-term needs of the affected population, tackling the complex socio-economic challenges of transition, and evolving with the rapid pace of change in technology and its impacts will define the role of AI in post-conflict reconstruction.

Integrating AI tools into post-conflict reconstruction processes could simplify the allocation of resources, mitigate the risks of corruption, ensure a more transparent process, promote community engagement, and ultimately help create more effective recovery strategies responsive to local needs. Using AI to enhance post-conflict reconstruction is not just about improving the use of scarce resources but also about empowering communities themselves to get engaged in

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

(2). Müller, H. J., & Dieng, R. On conflicts, 411-28.

the reconstruction process with the intention of long-lasting stability and resilience⁽¹⁾.

National ownership forms a major part of effective post-conflict reconstruction, and therefore, the focus on community level within this book demonstrates the importance of local viewpoints on recovery and how this is essential for successful resilience and sustainability of peace outcomes. AI will need to continually adapt to diverse community problems and be responsive in its incorporation within post-conflict reconstruction strategies so that they do not merely tackle existing challenges, but reinforce long-term durability and sustainability. We suggest that direct correlative AI applications for post-conflict reconstruction can continue to enable more efficient and effective recovery strategies, which in turn promotes the long-term establishment of peace and resilience in war-affected communities⁽²⁾.

In situations such as Ukraine, where efficient mobilization of ideas, resources, and manpower is crucial for rehabilitations, the role of AI in the post-conflict rebuilding is apropos. AI technologies can facilitate optimal resource allocation by stakeholders involved in community recovery and can create strong community resilience and equitable growth after conflict. Reveal this new angle of post-conflict

(1). Aydoğan, R., Aydoğan, R., Baarslag, T., & Gerding, E. H, Artificial intelligence techniques for conflict resolution. Group Decision and Negotiation, (2021), 1-5, <https://doi.org/10.1007/S10726-021-09738-X>.

(2). Aydoğan, R., Aydoğan, R., Baarslag, T & Gerding, E. H. Artificial intelligence, 1-5.

reconstruction and demonstrate how AI can be used to tackle the challenges that are specific to local communities such as those situations in Ukraine — where recovery comes at a priority⁽¹⁾.

While making processes easier, this use of AI technologies in post-conflict reconstruction supports Ukraine with the need to functionalize existing and limited funds and human resources as the country experienced after previous war damage⁽²⁾. By prioritizing community engagement, they can see that recovery is not only effective but appropriate for local conditions and values, and they can facilitate resilience. This collaborative framework is critical to ensuring that their AI technologies are both effective and in line with what the communities need and want, as is the case for Ukraine, which has experienced post-war challenges⁽³⁾.

III. Ethical Considerations

Ethical issues are among the most major, possibly even the most significant aspects about the role of technology in peacebuilding and the effectiveness of the interventions and the trust of those affected in the deployed technologies. This is why it is critical to set ethical

(1). Klyuchnik, A., & Livandovska, O. The artificial intelligence impact on community reconstruction, (2024), 153-55, <https://doi.org/10.69635/978-1-0690482-1-9-ch18>

(2). Klyuchnik, A., & Livandovska, O. The artificial intelligence, 153-55.

(3). Assem, A., Abdelmohsen, S & Ezzeldin, M. Smart management of the reconstruction process of post-conflict cities, (2019), 1-19, <https://doi.org/10.1108/ARCH-04-2019-0099>.

standards for the use of AI applications in the field of peacebuilding that promote fairness, transparency and local community participation so that stakeholders operating in conflict-affected areas can trust them. Creation of these guidelines will not only ensure efficacy of AI in peacebuilding but also create sense of ownership ensuring community's responsible and ethical use of technology⁽¹⁾.

The relationship between peacebuilding and AI is manifestly complex, but there is hope through establishing ethical guidelines that will be developed and implemented through careful and progressive dialogue amongst actors in the peacebuilding space, ensuring that AI technologies are applied in ways that truly promote peacebuilding and community resilience. This continuous conversation will aid in the development of ethical guidelines that will ensure that AI technologies are functional and attuned to the morals and needs of the communities in which they are used⁽²⁾.

The frames will allow stakeholders to use AI in an ethical manner where we will leverage technology to work for us to generate trust and understanding among opposing parties. This is key in creating ethical guidelines and ensuring that AI technologies serve the peacebuilding sector but also interact with the values and needs of those they seek to assist. That means continuous assessment of ethical

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

(2). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence. 240-43.

standards and community involvement to ensure that technology is utilized with the aim of fostering trust and collaboration in peacebuilding initiatives. Ethics in AI: The last word ethical integration of AI in peacebuilding is essential to cultivate trust and collaboration among stakeholders so that technology can be a catalyst for sustainable peace processes⁽¹⁾.

Overlapping sets of ethical guidelines can improve AI performance for peacebuilding, while fostering trust in communities, making for more resilient and cohesive societies. The ethical application of AI in peacebuilding demands that such technology embraces community engagement and transparency, and that the use of technology does not detract from trust, but builds upon it. While building trust across the board, the most critical would be to set in place ethical frameworks to utilize the AI responsibly for peacebuilding⁽²⁾.

III.A. Bias in AI Algorithms

It is important to incorporate ethical dimensions into AI applications, so that AI-generated biases do not disrupt peacebuilding processes and that all communities benefit equally. These ethical considerations will need to be addressed so that the benefits of AI

(1). Swasdee, A., Anshari, M., & Hamdan, M. Artificial Intelligence as Decision Aid in Humanitarian Response, (2020, November 8), 74, <https://doi.org/10.1109/DASA51403.2020.9317111>.

(2). Hirblinger, A. T. When Mediators Need Machines, 1-32.

technologies in peacebuilding can be realized while ensuring that the rights and viewpoints of stakeholders are respected⁽¹⁾. Such ethical integration will be crucial to ensure that the growing role of AI technologies in peacebuilding builds trust and collaboration across multiple communities. It is imperative that the conversation regarding the ethics of AI in the context of peacebuilding is inclusive. Only a collaborative approach to harnessing technology for conflict transformation will ensure a responsible use of AI. Its long-term adherence to these ethical principles will be necessary for establishing faith that AI outputs can at all be used to add value to peacebuilding in the wide variety of ways that conflicts manifest⁽²⁾.

This ethical framework needed in peacebuilding efforts is a big must-have, if stakeholders are to use AI tools with the responsibility they require, and develop a trustful collaboration⁽³⁾. The use of AI in peacebuilding has the potential to be transformative however the ethical implications needs to be monitored and examined so as not to create further human rights abuses through inequities in the technology, thus, Trust and cooperation should be analysed when using technology to resolve conflict.

(1). Yamakawa, H. Peacekeeping Conditions for an Artificial Intelligence Society. (2019), 9, <https://doi.org/10.3390/BDCC3020034>.

(2). Larrauri, H. P., & Kahl, A. Technology for Peacebuilding, 1-15.

(3). Gómez de Ágreda, Á. Ethics of autonomous weapons systems and its applicability to any AI systems. Telecommunications Policy, (2020), 81, <https://doi.org/10.1016/J.TELPOL.2020.101953>.

III.B. Accountability and Transparency

Strong accountability and transparency mechanisms will be vital to ensure the responsible and effective functioning of AI applications for peacebuilding, and building trust between those affected by AI and the wider community in which AI may be deployed. This process of accountability is an important first step that builds trust in these technologies and confirms their appropriate and ethical use in line with peacebuilding principles⁽¹⁾. Furthermore, clear accountability and transparency frameworks can increase community trust in the deployment of AI technologies and promote ethical use of AI in peacebuilding contexts. The need for such mechanisms will not be less fundamental in order to create an AI ecosystem that to be useful, has first to be trusted by the very communities that are meant to benefit speech. These mechanisms will guarantee that AI technologies are used responsibly, thus paving the way for the success of peacebuilding initiatives and the sustainability of trust within communities over time. The ethical dimensions of AI in peacebuilding require transparency and accountability, as well as effective mechanisms to hold those who use technology accountable to the people affected by it, and they will be essential to because trust and collaborative processing will be needed, including among different stakeholders⁽²⁾. Ethical AI Ripple Ethical integration of AI into peacebuilding requires ongoing stakeholder

(1). Hua, Z. AI Ethics and Governance in Defence Innovation, (2023), 185-98, <https://doi.org/10.4324/9781003218326-4>.

(2). Hua, Z. AI Ethics and Governance. 185-98.

engagement to inform these guidelines to ensure technology serves to foster inter-group trust and cooperation, rather than erode it. Mechanisms have to be developed that guarantee AI technologies are reliable and that the communities to whom they are directed do see them as reliable⁽¹⁾.

Continued attention to ethical commitments will be key to ensuring that AI technologies remain peacebuilding tools and those peacebuilders, technologists, and members of the general public have a basis for trust with one another⁽²⁾. Without these mechanisms, the risk will remain that AI technologies used for peacebuilding may further entrench existing power relations, failures or even conflict by diverging from the communities they are supposed to help align with their values and needs⁽³⁾.

IV. Challenges and Limitations

The analysis of the difficulties and restrictions of implementing AI into peachbuilding activities should be handled critically so that these technologies do not aggravate pre-existing conflicts or injustices. Tackling these challenges will nec essitate a socio-political awareness

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence. 240-43.

(2). Ebrahim, T. Y Artificial Intelligence in Cyber Peace, (2022), 1-17, <https://doi.org/10.1017/9781108954341.006>

(3). Olsher, D, Cognitive/AI peacekeeping decision support models. Global Humanitarian Technology Conference, (2013), 71-5. <https://doi.org/10.1109/GHTC.2013.6713667>.

of the holistic contexts in which AI is introduced, ensuring equity of its integration and not its equitable profoundness. Addressing these challenges requires carrying out the necessary evaluation of how AI may enable peacebuilding, so that technology amounts to appropriate and accountable use in various conflict settings. The successful use of AI for peacebuilding will have some dependence on its implementation; stakeholders will need to remain engaged and technologies will need to be adaptive to ensure that ethical considerations are the very forefront of any deployment of such technologies⁽¹⁾.

This commitment remains vital to leveraging AI technologies not just dialogues but also towards effective and sustainable long-term peacebuilding efforts that benefit every stakeholder⁽²⁾. Additionally, challenges related to the use of AI technologies for peacebuilding require ongoing engagement with stakeholders, and strategies that are adaptive in nature with a commitment to prioritising ethical considerations and community needs.

III.A. Societal Resistance

In the years to come, the application of AI for peacebuilding will be shaped by more collaborative frameworks aimed at reference to the

(1). Pizzi, M., Romanoff, M., & Engelhardt, T. AI for humanitarian action: Human rights and ethics. International Review of the Red Cross, (2020), 145-80, <https://doi.org/10.1017/S1816383121000011>.

(2). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

community's perspectives so that technology serves to enhance resilience and facilitate inclusive dialogues among stakeholders. This collaboration will be critical in overcoming societal backlash against AI technologies and ensuring that we treat them as tools of peace and not division. This framework for collaboration must be founded on transparency and accountability, with the aim to bridge trust gaps and making AI technologies and services for peacebuilding trusted partners. But the sustainability of technology based partnerships will depend on creating a culture of trust among key stakeholders, in which the technology is accepted as a partner in peacebuilding⁽¹⁾.

This will necessitate continuous connecting of tech developers with the local communities and establishing AI as a blessing add-on to peacebuilding efforts. Peacebuilding is increasingly becoming a technological enterprise, and the collaborative nature of peacebuilding with affected communities as partners in the technological process ultimately rests on the trust between developers of such technology and impacted communities⁽²⁾. This focus on collaboration highlights the need for continued dialogue among stakeholder to build trust and make sure AI technologies serve to strengthen sustainable peacebuilding efforts. Such a partnership-based approach will enable AI to better

(1). Coppi, G., Moreno Jimenez, R., & Kyriazi, S. Explicability of humanitarian AI, 1-22.

(2). Coppi, G., Moreno Jimenez, R., & Kyriazi, S.. Explicability of humanitarian AI, 1-22.

serve peacebuilding, foster greater trust among communities, and, as a result, eventually lead to more resilient and harmonious societies.

V. Future Directions

Future directions in AI for peacebuilding will focus even more on adaptive frameworks that center ethics and community engagement, in which technology can be a tool for collaboration and community resilience, instead of divisiveness in contexts affected by conflict. Part of this emphasis on adaptive frameworks as a key ingredient for enabling this would mean that in addition to addressing short term challenges, AI technologies play a promotional role in fostering lasting peace and stability in various conflict settings. Considering the rapid development of AI, progress must be made in formulating guidelines that are both effective and ethically sound. This, in turn, will help foster greater trust between various sectors of society, including state, non-state, and civil actors, as they seek to collaborate in pursuing peacebuilding goals⁽¹⁾.

Such a proactive stance will ensure that the power and potential of AI technologies are added to the service of sustainable peace initiatives that are aligned with the demands and opinions of local communities. As AI tools evolve and grow in peacebuilding, it will be important to enforce ethical practices for their development and not

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

leave communities behind as the technology is coded, so that it promotes sustainable peace instead. Such ethical commitments will be essential to build trust and to ensure effective integration of AI technologies in peacebuilding activities, which will further promote collaborative pathways for sustainable peace.

These frameworks of ethical use of AI in the field of peacebuilding will become crucial to influence future peacebuilding efforts focusing on the needs of the community while it helps in promoting sustainable peace. In sum, the development of AI technologies displays no sign of stopping in the field of peacebuilding, yet reflecting on their potential for narrowly framing or marginalizing communities as targets in a binary conflict resolution algorithm themselves may also be a way into ensuring equitable AI for conflict transformation as well, one using the SDGs as a criteria for the normative content of AI algorithms⁽¹⁾.

IIII.A. The Potential of AI for Peacebuilding

With the developments of AI, it will certainly influence peacebuilding, providing more solutions and approaches for conflict prevention and dialogues. These innovations can augment the capacity of peacebuilders to conduct nuanced conflict analyses and devise customized, context-relevant, local ownership-driven interventions that

(1). Alavi, D. M., Wählich, M., Irwin, C., & Konya, A. Using Artificial Intelligence, 240-43.

sustain peace. The continuous sophistication and development of AI technologies promises peacebuilders new capabilities to optimally alter the approaches to conflict resolution in ways that can create holistic sustainable peace⁽¹⁾.

As AI technologies continue to develop and proliferate within the peacebuilding space, there will need to be sustained commitments to ethical frameworks that enforce transparency, accountability, and community engagement in their responsible use. The future of AI in peacebuilding will be increasingly dependent on collaborative efforts that incorporate a variety of community perspectives with the aim of providing the broader community the ability to see technology in a more positive light as a means of mediation and understanding⁽²⁾.

The infusion of innovative AI tools into the peacebuilding ecosystem will help to be able to analyze real time data, which will eventually allow for more strategic interventions, thus greater probability of sustainable peace. This continuing evolution of AI technologies for peacebuilding is not self-implementing and calls for pre-emptive action to generate the spaces, points of reference and standards that facilitate the integration of these technologies with the

(1). Hirblinger, A. T. When Mediators Need Machines, 1-32.

(2). Hirblinger, A. T. When Mediators Need Machines, 1-32.

needs of communities and their ethical commitments that will maximize the possibilities of positive peace outcomes⁽¹⁾.

The continued advancement of technologies in AI for peacebuilding underlines the need for ethical frameworks to ensure that these technologies actually help communities to be more resilient and come together to prevent and resolve conflict. As AI technologies continue to develop in peacebuilding, they can provide huge benefits, but also negative sides — and the solution lies somewhere in the middle, using what we can get from both worlds and not neglecting ethical aspects⁽²⁾.

Conclusion and Recommendations

AI for peacebuilding should be human-centric, and guided by ethics and accountability frameworks to maximise community participation, and inclusivity in how technology can contribute to sustainable peace initiatives. These frameworks will enable stakeholders to use AI in a responsible manner by making sure that the technology can contribute to peacebuilding by enhancing dialogue and understanding, and addressing community specific needs. Their dedication to frameworks that commits to ethical ascertainment, will be crucial ensure that AI technologies sustainably positive peacebuilding

(1).Ebrahim, T. Y. (2022).Artificial Intelligence, 1-17.

(2). Jie, X., & Wang, C. A Preliminary Analysis of the Impact of Artificial Intelligence on World Peace.International Journal of Frontiers in Sociology, (2022), 11-8, <https://doi.org/10.25236/ijfs.2022.040913>.

initiatives and build confidence and interaction among all stakeholders engaged. Given the complexities of AI, it is paramount to constantly evaluate the influence of AI on peacebuilding activities and what needs to change to make sure development is ethical and in alignment with the community. Tracking this will be instrumental in developing specific policy options for how best to harness the power of AI while mitigating ethical challenges to effective peacebuilding.

The integration of AI in peacebuilding processes must be coupled with human-centered principles and emerging technologies will only serve to further peace if users adhere to ethical practices, remain engaged with stakeholders and the communities involved. Such a commitment to ethics will be built into the future of peacebuilding and create better pathways for the application of AI to build more inclusive and resilient communities. It will be vital for such commitment to ethical engagement for gaining attention of AI technologies and for supporting rather new peacebuilding with a dual-presentation of all the involved parties by recognizing their rights and voices. Developing ethical frameworks will be essential in navigating paths that both leverage AI in peacebuilding and prevent the technology from surfacing negative online behavior that hamper advancement for development dialogue and sustainable peacebuilding efforts.

For this to happen, it is a must that any technology, including AI, be used in peacebuilding processes, ensuring permission for inclusive

dialogue as well as inclusive approaches to the complexity of conflict dynamics so that technology can be a bridge and not a barrier!

Recommendations

The study recommended the followings:

1. Policymakers should priorities the creation of strong, context-specific ethical frameworks to guide the use of AI in peacebuilding. These frameworks must ensure transparency, fairness, and accountability so that AI technologies support trust, human rights, and conflict-sensitive practices in fragile environments.
2. Meaningful community participation is also essential. Peacebuilding initiatives should integrate local perspectives throughout the design and deployment of AI tools to prevent exclusion and ensure that technology strengthens social cohesion rather than reinforcing existing divides.
3. Finally, governments and peace actors must promote responsible innovation that aligns AI with long-term peace objectives. This includes preventing misuse, supporting locally relevant solutions, and ensuring that AI contributes positively to resilience and sustainable peace.

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