

Empowering Youth With Responsible AI for Smart Community Development

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ABSTRACT

The concept of Artificial Intelligence (AI) in smart community development has attracted much attention, and its implementation can be utilized both to create intelligent communities and enhance urban governance. The long-term social effects of AI remain unexamined by society. The research needs additional studies to examine current AI advancements together with their community-based obstacles and new usage areas. The process of community development starts with data collection and analysis to determine local needs which leads to effective decision-making and privacy protection. The future intelligent communities will achieve sustainable development through AI technology implementation which enables efficient service delivery and enhanced decision-making and operational streamlining for modern city governance systems. The success of these outcomes relies on correct AI deployment which brings benefits to all parties involved while managing potential risks. The research is necessary as it will show how artificial intelligence alters the social structures and economic systems and affects the human life standards. The findings of such studies can assist the policymakers and researchers to design AI-based solutions that can enhance sustainable development and increase the quality of life of every member of the community.

Keywords: Artificial Intelligence, Communal Development, Urban Governance, Sustainable Development, Intelligent Communities.

INTRODUCTION

The modern society is becoming more involved in various ways of knowledge acquisition, such as learning more than one language and using cutting edge technological instruments offered to the youth generations. One of the notable aspects of this interaction is that there is widespread use of artificial intelligence (AI), which is not the auxiliary tool but a pivotal tool in their learning activities. These people are self-educated, do academic tasks, and conduct research with the help of AI technologies, proving not only the possibilities but also the issues of the introduction of AI into everyday school work. The introduction of AI between 2024 and 2025 in Sri Lanka has been one of the most transformative in particular, as national plans like the National AI Strategy, the creation of the National AI Centre, and technologies like GovPay all use AI to facilitate easier civic life, leading to community development and the creation of governments that adapt to the needs of people on the fly [1] [2] [3]. While AI tools enhance learning and civic participation, there is an emergent need for responsible usage to ensure that critical thinking and independent problem-solving skills are not diminished [4] [5]. By fostering ethical engagement with AI, youth can contribute to the creation of intelligent communities urban and rural environments that are technologically empowered, socially inclusive, and aligned with the principles of sustainable development. This study looks at how young people can use AI to build smarter communities. By applying a strong ethical framework, the mission is to ensure technology builds communities that are fair for all, can withstand crises, and are poised for long-term success.

Statement of the Problem:

The fast growth of Artificial Intelligence (AI) technologies implies a huge opportunity to the development of society and economy in the world. The growth of Sri Lanka relies on the active involvement of its youthful population which is large in number in technological innovation. Nonetheless, among youths in Sri Lanka, a significant portion of the population is unable to use AI successfully because of its insufficient awareness levels, lack of digital literacy, and ethical and responsible concerns with the adoption of AI. The records of the Information and Communication Technology Agency (ICTA) of Sri Lanka (2023) indicate that there is a digital skills gap among the youth, especially in the emerging technologies such as AI, and with this they cannot gain access to smart community projects. As mentioned by Sri Lanka National Youth Services Council (2024) one of the most important tasks that should be taught to youth is responsible use of AI to ensure the ethical standards and privacy protection, and in order to address the issue of inclusive digital environments. The absence of organized initiatives and studies aimed at empowering young people by adopting responsible AI threatens Sri Lanka with a digital divide that would potentially increase the existing social inequalities and reduce the potential of smart community development programs. The overall goal of this piece of work is to develop strategies that will foster the younger generation in Sri Lanka to use AI responsibly thus contributing to the establishment of inclusive and sustainable smart communities in the country.

Objectives of the study:

To assess the awareness and digital readiness of Sri Lankan youth in using AI tools for solving community challenges. The ICTA Digital Maturity Report 2024 reveals a significant access gap, with just over one-third of rural youth possessing advanced digital tools [6].

To identify the potential applications of AI in areas such as education, healthcare, agriculture, and public services that directly affect local communities (National Policy on AI Ministry of Technology, 2023) [7].

This study will analyse the ethical challenges and potential dangers of AI use by young people, such as issues related to data security, algorithmic discrimination, and the spread of false information, as specified in Sri Lanka's 2024 Digital Ethics Framework [8].

This study will evaluate the integration of ethical AI principles and educational frameworks within existing national initiatives such as Smart Sri Lanka and Digital Youth drawing on insights from the Ministry of Youth Affairs' most recent annual report (2024) [9].

Research Questions:

RQ1: Are young people ready to take part in the smart community development through AI technologies?

RQ2: What are some of the challenges that one has to overcome to make the next generation embrace responsible AI use?

RQ3: To which extent the support systems (including government programs and schools) are effective to ensure the awareness among the youth about AI?

RQ4: How aware of the existence of Artificial Intelligence and responsible use are the youth

Research Hypothesis:

H1: There is a significant relationship between Responsible AI training and youth participation in smart community development.

H2: The insufficient access to digital infrastructure deters use of AI responsibly among the youth.

H3: Government and institutional support is essential in enabling the youth to unlock the AI potential..

LITERATURE REVIEW

Social development of Artificial Intelligence (AI) has become a revolutionary way of handling issues in communities. The article under consideration is called AI to Social Good Leveraging the Artificial Intelligence to build stronger communities, improve social services, and promote sustainable development [10]. The authors discuss the application of AI responsibly to build stronger communities, improve the work of social services, and promote positive development. It further uses the healthcare, education, agriculture, and government infrastructure as examples of the ways AI has made accessibility more efficient and aided in making better decisions [11] [12] [13]. The research highlights the weight of ethical AI, data privacy, incasement, and the necessity of human AI collaboration in order to address responsible use [14]. It points out that community specific models that are trained using local data are likely to perform well and generate trust among users.

Moreover, the study singles out such important challenges as the low level of digital literacy, insufficiency of infrastructure, and biased datasets. That is why it recommends employing community-based strategies and explicit policies to ensure that AI is fairly utilized in underrepresented communities [15].

This study provides a strong foundation for the current research titled “Empowering Youth with Responsible AI for Smart Community Development” by offering insights into how AI, when responsibly applied, can empower individuals especially the youth to lead local innovation. While the reviewed study covers community benefits in general, it does not deeply address the role of youth engagement and skill-building, a gap this research aims to explore in depth. Over the past few years, especially in the years between 2024 and mid-2025, Sri Lanka has been progressively examining the method of utilizing Artificial Intelligence (AI) in the social and community development efforts [16]. Digital innovations have been linked to rural development in different pilot projects involving universities, non-governmental organizations and technology startups.

A study at the University of Colombo (2024) concluded that the use of AI in solving community problems involving youths resulted in better community governance, environmental scanning, and the health of the population [17]. An example is AI-driven mobile applications created by student innovators, which assisted to forecast the risk of localized floods and provide the prompt alerts [18]. The application of artificial intelligence technologies enables the expansion and enhancement of urban operations, thereby facilitating the efficient and widespread delivery of its benefits across all sectors of society [19]. The effective utilization of urban resources is fundamental to improving quality of life and fostering sustainable urban development. Artificial intelligence (AI) technologies serve as a critical driver in this process, enabling enhanced efficiency, data-driven decision-making, and innovation within urban systems. Consequently, the adoption of AI has become increasingly widespread across various societal sectors, underscoring its pivotal role in advancing smart city development [20].

Nonetheless, there is still a literature gap on the evaluation of long-term youth participation and the effect of such programs on the grassroots levels. Available literature is likely to concentrate on the short-term application of technologies, and less on the empowerment framework, inclusivity in design, and policy-level assistance of responsible AI.

The proposed research aims to fill this research gap by emphasizing the topic of youth empowerment with responsible and community-oriented AI, which will contribute to the future sustainable and inclusive development of smart communities.

Conceptual Framework:

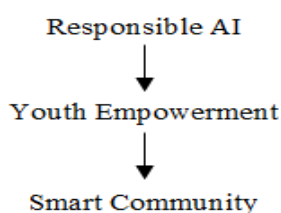


Fig. 1. Example of Conceptual Framework

This research proposes that Responsible AI can empower youth by enhancing their digital skills, ethical awareness, and community engagement. With the help of creativity, the laypersons are able to participate in the community and create a mainstream society that accommodates various issues like community concern and access. In order to establish a smart community, one will need to take informed decisions, utilize the data in the most effective way and lead the development of the society by introducing emerging technologies.

RESEARCH METHODOLOGY:

This study adopted a mixed-methods research design to investigate different aspects of intelligent society and to understand how artificial intelligence is integrating into it. The research was structured around the following sections, which were developed by interviewing journalists, government officials, teachers, students, data collection procedures, tools, and ethical considerations.

Research Approach:

By adopting a multi methods research approach, this study brings together both quantitative and qualitative methods to provide a comprehensive understanding.

Participants:

In this study, survey data were collected from 249 participants, including students and individuals employed in both private and government sectors. The collected responses were systematically organized and analyzed using appropriate statistical procedures to identify key patterns and insights. A stratified sampling technique was employed to ensure representation across different population groups, followed by purposive sampling within each stratum to select relevant participants. The sample size of 249 was determined using Slovin's formula, where n represents the required sample size, N denotes the total population (300), and the margin of error (e) was set at 5% (0.05). This approach ensured an adequate and representative sample for achieving reliable and valid results.

Furthermore, to enhance methodological rigor, the study provides a clearer justification of the sampling strategy, along with detailed explanations of instrument development and validation procedures. The statistical techniques used for data analysis, including descriptive and inferential methods, are also explicitly described to ensure transparency and reproducibility of the research findings.

Data Procurement Methods:

- 1) *Quantitative Stage:* Structured surveys using semantic differential scale questions will be distributed among participants to assess their perceptions of how AI permeates the youth in fostering community development toward a smart society.
- 2) *Qualitative Stage:* The focused interviews and in-depth discussions were conducted using youth who mainly live in the Northern Province of Sri Lanka. In order to obtain high-quality qualitative data, the research employed unstructured, open-ended questions giving the participants an opportunity to express their subtle opinions and lived experiences concerning the role of artificial intelligence in the development of smart communities.

Apparatus:

Table1 Demographic Profile Of Respondents

Variable	Category	Frequency (n)	Percentage (%)
Age (in Years)	20-24	142	57.0
	25-30	107	43.0

Gender	Male	128	51.4
	Female	121	48.6
Location	Urban	145	58.2
	Rural	104	41.8
AI Awareness	Aware	45	18.0
	Partially Aware	98	39.4
	Not Aware	106	42.6

The questionnaire will comprise items of the validated semantic differentiable scale that will be based on the existing literature. Also interview and group discussion procedures were well designed to suit the objective of the research and to capture broad qualitative information.

Descriptive Statistics:

3) *Quantitative Examination:* In evaluating how responsible AI contributes to smart community development, techniques like the Chi-square test will be applied to explore connections between youth and their understanding of AI. Additionally, techniques like correlation analysis will help explore the strength and direction of associations between AI literacy and youth participation in community growth.

4) *Qualitative Examination:* Thematic analyzing real-life case studies where youth have engaged in AI projects can highlight the transformative role of responsible AI in enabling smart, inclusive community development. The collected qualitative data were analyzed using thematic analysis. The analysis followed a systematic process consisting of data familiarization, initial coding, theme identification, theme review, and interpretation. Codes were assigned to meaningful data segments and subsequently grouped into broader themes. The key themes identified include youth engagement in AI, responsible AI practices, community development impact, and transformational outcomes. To ensure the reliability and validity of the findings, several strategies were employed. Data triangulation was used by incorporating multiple data sources. A consistent coding framework was maintained throughout the analysis process, and detailed documentation of the analytical procedures was preserved to enhance transparency and reproducibility.

Ethical Framework:

This research will treat all responses and personal details shared by youth participants with complete confidentiality. The collection of data will be done only when the participants have very much consented, and all the information gathered will be kept in high security levels in order to secure it. These measures are implemented to maintain ethical standards of research, as well as in protection of privacy and rights of people involved.

Demographic Profile of Respondents:

This study conducted a survey involving 249 youth participants from diverse geographical areas to examine their demographic characteristics and level of preparedness for engaging with artificial intelligence (AI). The participants were aged between 20 and 30 years, with balanced gender representation. They represented a range of educational backgrounds, from secondary education to postgraduate level, and included students, employed individuals, and unemployed youth from both urban and rural settings, thereby reflecting varying levels of access to digital technologies. In line with the study's objectives, AI awareness was assessed to evaluate the extent to which youth are equipped to participate in responsible AI initiatives for smart community development. Consistent with the previous discussion, the findings highlight disparities in digital literacy and access to AI resources, particularly between urban and rural populations. These variations underscore the importance of

targeted capacity-building programs, ethical AI education, and inclusive digital infrastructure to enhance youth participation in sustainable and intelligent community development.

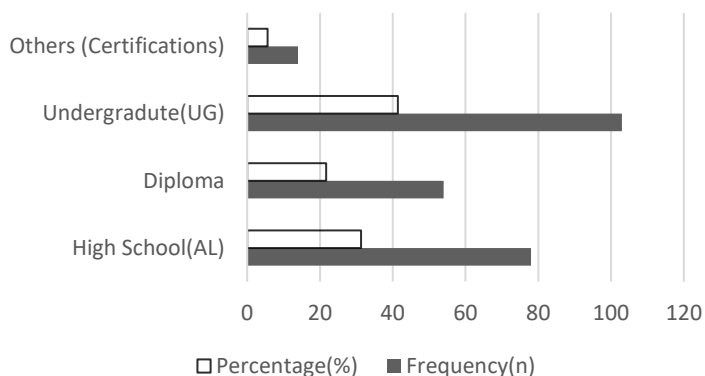


Fig. 2. Education levels of youth participants

FINDINGS AND RESULTS:

Applications of AI Level Awareness:

The level of AI applications awareness between youth participants was evaluated to understand their familiarity with trend technologies influencing smart community development. The sort-out indicate varied levels of understanding, with some youth demonstrating basic idea of AI tools, while others exhibited limited exposure. This variation highlights the necessity for targeted educational and perception programs to connect the gap and promote responsible AI engagement within the community.

5) *Awareness of General Insight:* An important section of the youth surveyed had only a surface-level understanding of AI, mainly discerning it through social media algorithms or voice assistants. However, level of how AI can contribute to smart community development was relatively low, indicating the need for more focused information dissemination.

6) *Need for Capable Building:* The output triggers a gap between the basic awareness of AI and its practical applications in societal progress. Most of the member were aware of AI in daily life but lacked clarity on its ethical use and smart community benefits, scoring the need for structured learning programs.

7) *Awareness Among Areas:* Members from urban areas generally mentioned higher exposure to AI technologies related to those from rural regions. This distinction in awareness levels denoted a digital divide that may consequences of equitable AI adoption in smart community ventures.

Contension:

This portion intensely analyzes the outcomes and comparing with existing data and highlighting vital information. Discuss how the awareness and aptness of youth toward responsible AI align with smart community development goals. Deal with any unexpected findings, regional differences, or gaps revealed through their data.

Findings and Interpretations:

The study expresses that a majority of youth participants (ages 20–30) are moderately aware of Artificial Intelligence (AI) but lack of deeper understanding of its responsible use in real-world applications.

Downtown youth showed higher digital literacy and more exposure to AI tools compared to their country counterparts. data protection vulnerabilities. Fascinating, the respondents convey a strong willingness to learn and engage with responsible AI when associated with smart community development goals, such as smart governance, digital education, and public service delivery.

The research analysis also proposed that gender and educational background had slight impact on AI awareness, but access to digital infrastructure played a key role. These findings imply a real-world need for customized outreach efforts, skill-building workshops, and policy structure that focus on responsible AI literacy, especially in marginalized areas, to ensure inclusive smart community development driven by active and engaged young people.

CONCLUSION

This study highlights how youth is important in ensuring that Artificial Intelligence is utilized in a responsible and ethical manner to the advantage of communities in the future. According to the findings, young people are communicating with AI technologies more actively, but there is an obvious lack of awareness and knowledge on the responsible use of AI. Young people need to be empowered with the appropriate knowledge and tools and ethical structures, not only to help them, but also create smarter, more inclusive, and stronger societies.

Through investment in AI, the creation of digital responsibility, and the recruitment of the youth in technology-driven solutions, communities can make sure that development is not just smart, but also sustainable and human-centered. This study underlines that the real development does not only involve coming up with advanced technologies but raising a generation that embraces them with responsibility, inclusiveness and prudence. Ought this to be the case, the way to a smart community development should be through the empowerment of the most vibrant agents of a community; its young ones.

RECOMMENDATIONS

Resting on the outcomes of the present research on empowering the youth with responsible AI in terms of smart community development, the following recommendations are suggested to be considered in the further actions of all the educators, policymakers, and community stakeholders involved.

Implement Responsible AI Education in Youth Education:

Schools and universities must also include basic ideas of AI, and one of the priorities must be a sense of responsibility and ethics, privacy of data, and bias in algorithms. This will make the youth not only tech-savvy, but also morally conscious when it comes to their utilization and creation of AI systems.

Facilitate AI Local Challenge Innovation Led by Youth:

To make sure that technological innovation can address the needs of the locals, it will be useful to motivate young people to develop AI-based solutions to real-life problems of the community (traffic management, community health, or environmental monitoring). Incubation and mentoring as well as funding are needed.

Develop Cooperation and Mentoring Programs:

Organized collaboration opportunities among students, AI professionals, universities, and tech organizations should exist. The AIs bootcamps, workshops, and mentorship programs can be used to support and motivate younger people as well as strengthen the principles of responsible AI.

Make sure AI Tools and Digital Infrastructure are Equitably Accessible:

The governments and the non-government actors have to invest in bridging the digital divide. As many young people should be able to take part in the activities of smart communities, equal access to internet connectivity, AI learning platforms, devices, and coding environments should be provided so that all youth, irrespective of the socioeconomic background, can be engaged in meaningful activities.

Encourage Ethical Consciousness and Thinking:

The possible dangers of AI, such as bias, jobs loss, surveillance, and misinformation, should also be brought to the attention of the youth. Technical education has to be accompanied by programs that encourage critical thinking and ethical decision-making.

Support Policy Development to Have Youth participation in AI:

They ought to develop frameworks that support and finance the use of youth in national AI strategies by the policymakers. This involves the encouragement of startups, the acknowledgment of youth-led initiatives, and giving the youth a chance to be involved in the AI policy consultations.

Design Local AI Innovation Hubs:

AI labs or problem-solving hubs Community-based AI labs or problem-solving hubs should be created as spaces of safety and experimentation, learning, and collaborative problem-solving. Such hubs are to focus on responsible innovation, inclusivity, and practice.

Add Youth Representations to AI Governance Structures:

To ensure that the AI policies are sensitive to the demands and interests of the younger generation, the youths must be included in the AI's advisory boards, ethics committees, and community forums during decision making. Their participation can be used to make the AI governance more inclusive and equitable and a visionary one.

Future Work

Although this study has offered important information regarding the importance of empowering young people with responsible AI to develop a smart community, it is evident that there are still areas that can be explored and developed in the future. Further improvement of this sphere is offered in the following directions.

Longitudinal Youth-AI Initiatives Evaluation:

Next-generation research ought to be geared towards monitoring and evaluation of AI projects initiated by youth and executed in local communities on a long-term basis. It would aid in gauging the technical efficiency of the solutions as well as its sustainability, ethical considerations and real contribution to community development in the long term.

Young-Centered AI Ethical Design:

Despite the existence of general AI ethics, there are no youth-friendly frameworks applicable in practice, which would help in making appropriate ethical choices in the course of developing an AI. The next generation of work must strive to develop such frameworks in collaboration with the youth in a manner that would be comprehensible, meaningful, and directly relevant to real-world projects.

Comprehensive Approaches to Minority Youth:

Future studies ought to examine efficient tools of reaching out to underrepresented populations, including disadvantaged youths, young women, and low-income communities, to AI education and invention. This will involve the identification of the obstacles they experience and the creation of specific interventions to enhance equity and inclusion.

Educational Programs Impact Assessment:

Measurement and assessment instruments to determine the effect of AI education programs on the behavior of the youth, development of skills, their involvement in civic matters, and their understanding of ethical principles should be developed. Such tests will guide the process of curriculum and instructional strategy optimization in order to enhance learning.

Policy Integration and Curriculum Development:

The future research will be capable of assisting in the formulation of effective national or regional AI-based education policies that can consider the idea of responsible AI in formal and informal learning environments. This

will require collaboration with education ministries, non-governmental organizations and technological experts in ensuring that such curricula are compatible to the academic goals along with the societal needs.

Integration and Innovation: Technological:

With future AI convergence with other innovative technologies (Internet of Things, IoT, blockchain and renewable energy) researchers should understand how young people can be educated to combine all these technologies to develop comprehensive smart community solutions.

International Cooperation and Sharing of Knowledge:

Lastly, the development of global platforms where young people across the countries can work together on AI-supported community can be considered in the future. This would lead to cross-cultural learning, solving global issues, and creating various and inclusive AI applications.

Smart Community Development implication:

Research results of this study point at the fact that youth empowerment through responsible AI knowledge has both direct and practical implications on smart community development in the real-life settings. Once the youth have both technical and ethical awareness, they will be able to engage in the solution of the issues of the local scope, like waste management, traffic regulation, energy efficiency, and healthy population, with the help of AI-based solutions. This does not only encourage grassroots level innovation but also enhances community engagement, inclusion in digital and long durability. Moreover, engaging young people in smart development initiatives would mean that the future generations would influence technology-based solutions, hence communities would be more adaptive, inclusive, and responsive to the emerging demands in the society.

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