

The Role of Education and Artificial Intelligence in Curbing Insecurity Chikun Local Government, Kaduna State

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ABSTRACT: This paper studied the role of education and artificial intelligence in curbing insecurity for sustainable development within chikun local government area of kaduna state. Chikun Local Government, being one of the 23 Local government area of Kaduna state lies between Latitude 100 25' 31" N and 100 37' 38" and Longitude 70 01' 09" E and 70 29' 50" E. The study reviewed some literature and found that the study area has witnessed a serious security threat for over a decade. The findings showed that insecurity will drastically reduce when people become educated. Also, AI has some features that make it think and reason even faster than humans and can be employed to various areas that is not accessible to humans in order to get data. If AI technology is applied, it will help improve security situations of Chikun local government area of kaduna state. Due to the importance of education and the use of AI in curbing insecurity, it is therefore recommended that Government should ensure proper implementation of AI technologies in all its security headquarters and campuses of educational learning.

Keyword: *role, AI, Education, sustainability, development*

Introduction

Youths are regarded as the future leaders of tomorrow and utmost asset for any country's development. Therefore, any society or country that plays with the welfare and development of its youths could be said to be playing with its future and survival (Alanana, 2003). Unfortunately, youths in Chikun local govt, kaduna state have been left to their fate and inflicted with the menace of insecurity that resulted in many losing their lives. These youths make up the active population of any society. The active population of any society is its productive sector, and this determines to a large extent the level of development of that society. When the youths, being the active population, are made unproductive, consciously or unconsciously, that society tends to remain stagnant in her developmental strides. Youth are one of the greatest assets a nation could possibly possess. They usually form the foundation of any society and so, their energies, inventiveness, character and orientation define the pattern of development and security of any society. Through their creative talents and labour power, a nation makes giant strides. Youths are also the most volatile when their energies are misdirected or channeled into wrong endeavors. The daily desperation and frustration that torments the unemployed youths create a fertile ground for crime to thrive. Thus, the youth need urgent reorientation for positive attitudes change, hence the need for education and the use of Artificial Intelligence to curb insecurity within Chikun local government area of Kaduna State. Education serves as light that shows a clear path for ones to follow and as such, it does not have a single universal definition as it depends on the context it is being viewed from. For example, according to Bose et al., (2020), education is the creation of a sound mind in a sound body while Malcolm viewed education as the passport to the future, for tomorrow belongs to those who prepare for it today. From the two definitions, it can be seen that education is the process of acquiring knowledge, skills, beliefs, norms and values for the growth of the individuals and society at large (Ajuofo, 2024). By this definition, it is clear that when the youths and the entire people become educated, they will be able to prepare for a better future that will bring an all-round human and infrastructural development within the study area. Scholars across the globe opined

that if education and the use of artificial intelligence are applied, it will drastically curb insecurity anywhere. Artificial intelligence (AI) has become an essential instrument in our present world, activating and changing substantial trends all over human endeavors. Although AI offers unlimited opportunities for innovation and efficiency, it simultaneously poses significant challenges, particularly regarding job security (Wu et al., 2022). The AI which uses Machine Learning accessories is seeing as a beacon, a testament to our ability to push the boundaries of what is possible, a dynamic field that empowers machines not only to process information but also to learn, adapt and contribute to the resolution of complex problems that have long challenged our intellect and so, if education and integration of AI, ML, deep learning and biometric systems are adopted and employed, they have the potential to significantly curb security threats in various communities. These intelligent systems can automate routine and repetitive tasks, leading to increased efficiency and productivity. AI and ML excel at analyzing vast amounts of data quickly and accurately. This capability can aid businesses and government agencies in making more informed decisions based on data-driven insights. Automation through intelligent systems can reduce operational costs associated with labour, errors, and inefficiencies. Businesses can benefit from lower costs, which may contribute to increased profitability and economic growth. Embracing intelligent systems fosters innovation, enabling organizations to stay competitive in a rapidly evolving technological landscape. Businesses that leverage advanced technologies are better positioned to adapt to market changes.

Geology and Physiography of the Area

Kaduna State is one of the 36 states that constitutes the federal Republic of Nigeria. It's found in the northwestern part which is always considered as the capital of the north. The state is blessed with many natural resources because it is underlain by Precambrian rocks of the Nigerian Basement Complex (Jatau 2013). The state has 23 local government areas and among them is Chikun. This Chikun LGA lies between Latitude $10^{\circ} 25' 31''$ N and $10^{\circ} 37' 38''$ and Longitude $7^{\circ} 01' 09''$ E and $7^{\circ} 29' 50''$ E. Chikun LGA has an area of 4,645 km² and mean elevation of 620m

above mean sea level, and the local government has a population of about 502,500 people (Chikun L.G 2009).

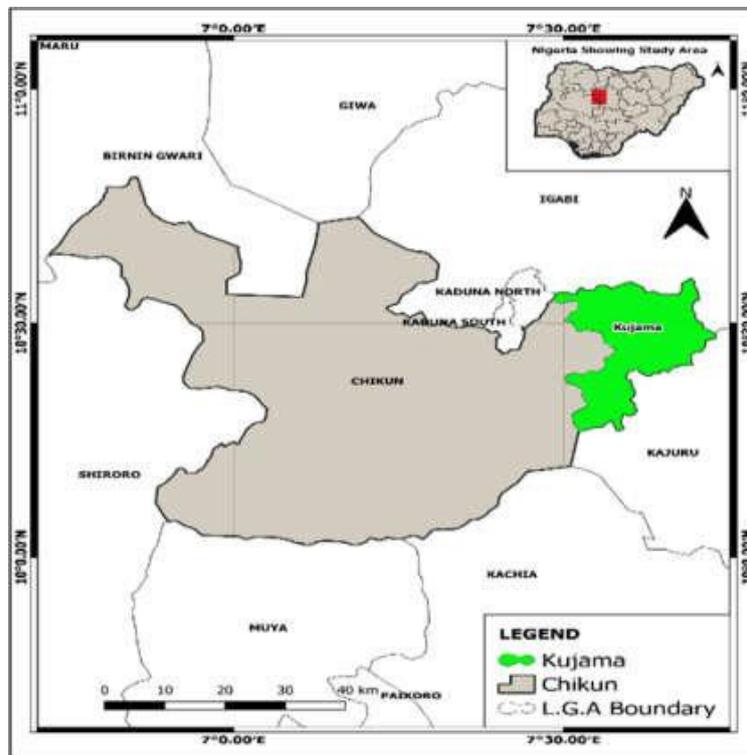
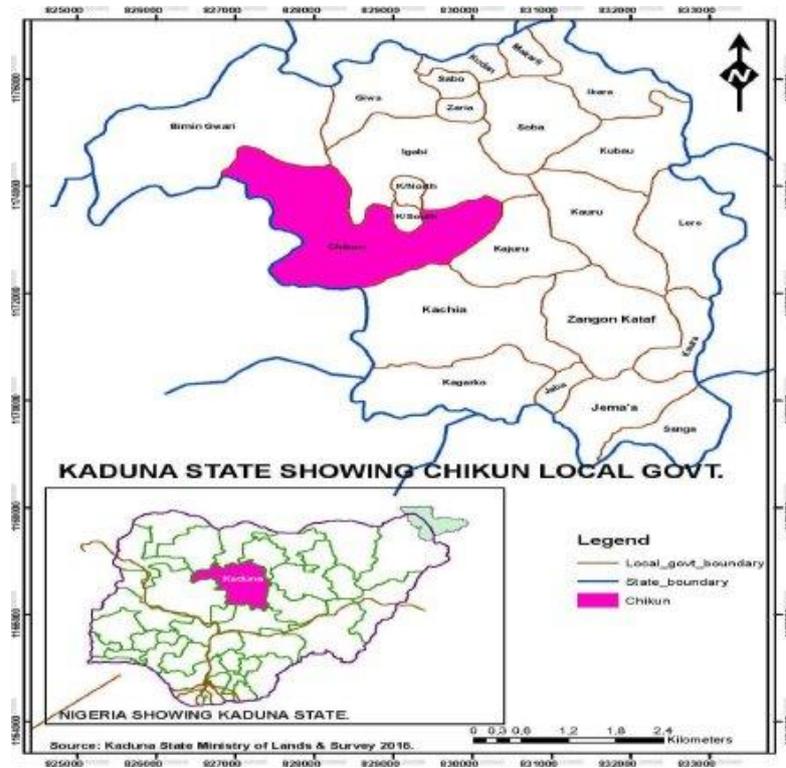


Figure 1: Geology map of Chikun local government Area

An Overview of Insecurity in Chikun Local Government Area of Kaduna State

Insecurity in Kaduna State has become like a hot potato in all the 23 local government areas since 2015 till date. It started with the total destruction of lives and properties in some local government such as Jema'a, Kajuru, Kaura, Kachia, Chikun, Birnin gwari and later escalated to the rest of the local government areas of the state. It has been a long-standing menace occurring in different forms which include terrorism, banditry and kidnapping, and consequently disrupting economic, agricultural and educational activities of almost the entire state. The consequences of insecurity on every human endeavor in kaduna state is quite devastating and this has negatively affected crops yield, health and education sectors in Kaduna State, and this has prompted some researchers such as (Garba et al., 2024) to explore those consequences and recommend solutions to mitigate them. Chikun local government area of kaduna state has witnessed series of security threats in the past eight years. The multiple security challenges confronting the entire areas include:

- i. resilient Boko Haram Islamist insurgency
- ii. Armed Fulani Terrorists
- iii. Herders - farmers conflicts
- iv. Kidnapings

These fortunate incidents have caused so many people to lose their lives and has made many homeless. This ugly situation has subjected people to abject poverty and also forced many to withdraw their children from schools for fear of either being killed or kidnapped (Okwor, 2022).

Potential Role of AI Technology in Curbing Insecurity

Presently, the world has become data-driven which eventually makes information to be indispensable, a development that most people use the slogan "information is power". information is getting in different ways. In the past, most scholars relied on traditional ways of obtaining information about subjects or any topic under study, a method that often becomes tedious and at times risky and slow. Today, advancement in technology has made work easier and more efficient with the coming of artificial intelligence (AI). AI technology has on several occasions become indispensable

globally, especially in scientific exploration and security sectors. It has several applications in curbing insecurity through aiding data collection and analysis (Akwor, 2022). With advancement in Technology, the rate of crimes is very high and has become a menace internationally. These crimes must be put in check in order to have a safer environment to live in. Crimes can be tracked in different ways, with AI tools becoming the most reliable and efficient and by using this AI technology; a large amount of data about crimes can be stored and be used for analysis at choosing time. This technological development has made criminology into an appropriate area for the appliance of AI analysis methods (Dulles, 2016). By using AI technology, data about crimes is usually automatically collected and entered into enforcement databases. Data mining tools have grown in recent times and data analysis has become increasingly useful which lies at the center of the successful fight against crime, also due to the management of this counteraction.

Collecting information

Getting high-quality data is key to any successful survey or academic research. For security purposes, data reliability is needed, which is an integral aspect to the training, testing, and validation of AI models. It will be very useful to AI developers for them to be able to produce top-grade AI models that is capable of making high-quality precis predictions and decisions and generate great content. However, the data will not always be available for free public consumption or utilization. This reason calls for some peculiar AI data whose sole aim is gathering quality data from authoritative sources.

Criminology

Criminology is an aspect of global security department that focuses on how crimes are committed and also ways through which intelligent data can be gathered and analyzed. It has a process whose purpose is to identify criminal characteristics.

AI training, deep learning, and fighting crime

Machine Learning, computer algorithms that permit seek out the bent figure with an out sized amount of data are widely employed by technology giants like Google, Apple, and Netflix. The same technology that allows programs to recommend films

or to line the order Googlesearch list is now successfully wont to combat crimes of varying severity.

□ **Detecting crimes**

Because AI is a position to research a huge amount of data, it's often apt to investigate and stop crime. An example of this is often the advertising of sex services online. Sex workers are thought to be relatively anonymous and advertise their services almost under the nose of enforcement authorities. But every message online leaves a digital trace. Cyber experts can use algorithms for digital tracking data on the web to determine if women volunteer or are coerced to advertise their services that focus on seemingly insignificant details. By processing the input data, algorithms are programmed to research such details as a boom of small theft arrests within the world where sex services are advertised. AI may detect an increase in thefts of the littlest amount of important things like toothpaste or soap. The thought of this technique is that if someone may be a victim of human trafficking and is brought from another region; he could even be deprived of access to basic subjects for a traditional life. Furthermore, AI training applies to data associated with hotel rooms paid in taking advantage of areas where sexual services are provided and advertised during major events like concerts or sporting events. This algorithm applies to other details associated with trafficking in the citizenry. for instance, analyzing the above-mentioned messages, enforcement officers use the training opportunities of AI to determine links between ads and their authors, listening to such nuances as similar sorts of writing and settings utilized in quite one ad, on internet sites in missing persons' databases. A learning algorithm is additionally work to track payment transactions to supply intimate services to spot the links of this paying for advertising with larger organizations involved in trafficking. Machine learning technology for AI is often applied not only to the detection of crimes associated with human trafficking and made prostitution but also for practically other sorts of crime.

Forced labor by training and self-learning AI, enforcement can determine whether some business works alongside companies using forced labor. In the area of supply chain logistics, the utilization of forced labor isn't unusual. AI can aid in

investigating allegations of labor violations or complaints against companies using forced labor.

Analysis of knowledge through AI may reveal links that might rather be difficult to spot.

□ **Cybercrimes**

The goal of most organizations is to promote themselves in the market while protecting their image against any stain. This task is achievable with the help of AI and any cyber-crime which is capable of causing financial and reputation damage can be prevented.

□ **Face recognition**

To tackle and combat crime, face detection is necessary. AI Technology has that capability, and it's often deployed at several important places such as airports to map human images into enforcement database files, which permits identifying the perpetrator of crimes (Keith, 2018).

□ **Prevention of crimes of a terrorist nature**

The government and society at large need to put eyes on social networks with the view to tracking people that are often radicalized and specialized in fraudulent activities. This task is one of the activities that AI can effectively perform after appropriate training.

Scanning different gatherings and social networks to identify already radicalized people is a special task that AI can effectively perform after appropriate training. In recent times, some organizations across the globe had already adopted the use of social media to recruit new members of terrorist organizations like ISIS, boko haram and Fulani terrorists (Albert, 2018).

Artificial Intelligence Technology and Education

Artificial intelligence (AI) technology is trained to possess the ability to reason like humans by using some features of algorithms. Even though this technology has come

to existence just recently times, it is becoming more popular in academic and security sectors as a result of advancement in machine learning and big data analysis, (Okwor, 2022). AI technology has widespread applicability in different sectors such as tracking criminal activities. In doing so, the AI technology used Digital Personal Assistants (DPA) being features of modern operating systems of mobile phones and computers are used. This DPA relies on AI technology to perform tasks such as online search, recommendations, voice interpretation among others. Another applicability of AI is Automated personal data banks which is a database containing digital information such as images, fingerprints, insurance details, and vehicle registration. This information can be used as a source of information by security operatives to track any criminal activities (Denham, 2017).

In curbing insecurity in Chikun Local Government, the role of youths should not be ignored. *Young people are trailblazers of progress: As entrepreneurs, activities, and community leaders, you don't only inspire change you create it.* Youths are the centre of reconstruction and development, and with their unique mindset, they can help address the root causes of insecurity and detect measures to prevent it at an early stage. This is done by educating themselves, acquiring skills, creating awareness, advocating for peace building, peer influence, and collaborating with local authorities. Our nation stands at a critical juncture, and the active engagement of our young people is central to achieving a sustainable, inclusive, and stable society in the coming years (Garba, 2024).

Conclusion

The security situation in Chikun local Government has become an issue of concern due to the high rate of insurgency through the development of Boko Haram violence, cattle rustlers, herdsmen, kidnappers and other criminal offenses across the area. Education and Consolidation of AI will, to a greater extent, help in curbing the insecurity if:

- People of the area become educated
- Security of the become automated

Due to the importance of education and the use of AI in curbing insecurity, it is therefore recommended that Government should ensure proper implementation of AI technologies in all its security headquarters and campuses of educational learning.

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