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Online Platform for Safety and Mental Well-Being for Children and Women

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Abstract: The rapid progress of our digital world demands enhanced protection of women's safety combined with children's mental health because it has become increasingly vital. The platform delivers an integrated solution through which users receive emotional backing along with legal services alongside mental wellness tools for managing challenging circumstances. Artificial Intelligence (AI) together with Machine Learning (ML) and Deep Learning (DL) allows to create an interactive secure platform for users. The primary component of the platform consists of a smart chatbot that includes Natural Language Processing (NLP) abilities. The system analyzes user emotions while processing their sentiment to identify signs of distress which triggers prompt supportive measures. This platform provides game-like features that stimulate users to perform mental wellness activities on a regular basis thus integrating wellness into their daily routines. Users can access professional legal guidance through the platform that leads them to understand their rights alongside proper steps to take during specific situations. This platform provides empowerment through education so people become capable at safeguarding themselves through informed choices. Platform users can find professional legal help on the system to learn about their rights as well as appropriate responses for various circumstances. It delivers empowerment by delivering information that creates the capability for individuals to defend themselves by making well-informed decisions.

Keywords: Women's safety ,Children's mental health, Emotional support, Legal services, Artificial Intelligence(AI), Machine Learning(ML), Deep Learning(DL),Smart chatbot, Natural Language Processing(NLP), Game- like features, Professional legal guidance

I. INTRODUCTION

It utilizes AI technology to create an online platform which strengthens both security and psychological health of women and children who need assistance with emotional well-being and security protection. The platform employs Machine Learning (ML) together with Deep Learning (DL) and Natural Language Processing (NLP) to deliver three core services which include real-time sentiment analysis and interactive wellness activities. Users can find an AI-based chatbot on the platform which uses emotion detection technology to deliver tailored support measures to its users. It provides users with essential elements including an artificial intelligence-controlled chatbot alongside mental wellness game components in addition to legal rights instruction and continuous monitoring and protected electronic services. The NLP-based and sentimental analysis powered chatbot detects distressed users and offers instant mental assistance before referring them to expert help. The platform achieves its functionality through deep learning methods that consist of Recurrent Neural Networks (RNNs) and Long Short-Term Memory (LSTM) and Transformer-based BERT NLP tasks.The system combines CNNs and LSTMs for sentiment research and emotion categorization while applying Reinforcement Learning-based methods to modify content updates and optimize user involvement. The system deploys NVIDIA GPUs (Tesla T4, V100, A100) for deep learning speedups that operate with Intel Xeon and AMD EPYC multi-core CPUs which perform the backend processing. The system delivers high performance and minimizes delays because of its 32GB+ RAM combined with NVMe SSD storage. Cloud-based deployment through AWS Google Cloud and Microsoft Azure enables scalability which allows the system to serve numerous users. Secure backend foundation makes use of the stability provided by Linux-based servers which include Ubuntu and CentOS. Through Docker

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containers administrators can deploy services as modules while maintaining full uptime when updating their system. Data storage of legal information and user data occurs through MySQL or PostgreSQL databases which run under secure management practices. Users can benefit from TPM 2.0 encryption because it delivers robust defense against unauthorized access of sensitive information. The emotion-aware chatbot employs sophisticated models like RNNs LSTMs and Transformers to read user emotions after which it generates appropriate empathetic messages and conducts users to essential professional assistance. The combination of CNNs and LSTMs works as sentiment analysis to determine emotional status instantly. At the same time Transformer models deploy attention mechanisms specifically for detecting distress signals. The inclusion of Reinforcement Learning into the gamification model allows users to play games that match their individual preferences while soothing their stress levels. A future implementation of the system will involve the addition of facial emotion recognition through CNNs and ResNet architectures to perform video-based emotion detection. he platform uses AI technology to unite technology with mental wellness needs by providing full-scale support for legal advice and emotional aid and mental wellness services. A safe and entertaining user environment arises from its implementation of deep learning alongside sentiment analysis together with game elements.

II. RELATED WORK

Research conducted by Smith et al. analyzed mobile-based mindfulness interventions (mMBIs) effect on mental wellbeing primarily among female participants. The researchers discovered that mobile-based mindfulness interventions decreased anxiety together with stress because they provided meditation and behavioral therapy techniques. The authors documented low user participation because the system lacked engaging features even though it delivered mindfulness services effectively. Mobile access proved beneficial yet insufficient elements of interaction caused users to lose interest in sustained use. User engagement needs improvement with advanced digital mindfulness solutions because conventional mobile-based mindfulness solutions show limited success rates.

In their work M. Naslund, D. Aschbrenner, and L. Marsch studied digital platforms because they show potential to decrease loneliness while offering crisis support services. The research showed that artificial intelligence self-help systems and peer networks through online platforms expand mental health assistance for women and children specifically. According to research the authors presented two major obstacles pertained to privacy dangers in data storage and false information spread which demonstrated the necessity for safe platforms that combine integrity management and reliability features.

Preceding legislation known as COPPA enforces rules about child information governance through a requirement that platforms require parental consent to enroll users below 13. Studies demonstrate there are several obstacles for COPPA enforcement while new risks emerge from child cyberbullying activities and excessive internet usage. The suggested proposals involve utilizing AI content moderation tools as well as implementing digital literacy education for addressing these problems. Both UNICEF and WHO have highlighted the necessity to defend mental wellness in digital realms by creating policies for enhanced online safety as well as developing parent-safety guidance through their collaborative efforts.

The research of Priyanka Gupta et al. presented a mobile system based on artificial intelligence and machine learning for real- time women's security monitoring. Through its functionality the system enables users to share their position in real-time and predicts secure paths while automatically alerting safety contacts and law enforcement personnel. Real-time personal security improvements are the objective of this framework because it uses AI predictive analysis. The security system has proven to be essential for women's safety but its operational capabilities in unconnected or low-data areas are constrained by its dependence on uninterrupted internet service along with precise real-time information.

Scientific research demonstrates that mobile-based mindfulness interventions (mMBIs) achieve anxiety and stress reduction through their combination of meditation practice and behavioral therapy techniques. User engagement stays at low levels because the application lacks interactive elements which causes participants to drop out of use after initial involvement. Computer programs assist in combating loneliness while delivering crisis support to women and children specifically through tools that utilize AI self-help capabilities and peer network functionalities. The need for dependable and confidential platforms emerges as a critical issue because of privacy issues and false information dissemination.

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The proposed enhancements for better effectiveness would use Artificial Intelligence in content monitoring alongside digital education to monitor security in real-time based on predictive data analysis for secure accessibility.

III. EXISTING SYSTEM

People currently use web-based platforms and mobile apps to access mindfulness instructions and stress management tools through these digital tools. These mindfulness solutions are available but their basic nature fails to create immersive interaction which reduces user participation levels.AI recommendations exist across certain systems although these solutions maintain static inactive behavior by not learning from user preferences dynamically. Virtual and augmented reality solutions can be found in the market but their high cost prevents widespread adoption. The current limitations demonstrate that users require highly immersive and customized mindfulness programs which could be provided through Metaverse-based interventions.

Internet platforms which offer safety and mental well- being support presently encounter multiple obstacles in their operation. Traditional helpline operations provide support to their users yet do not offer immediate intervention combined with tailored assistance. People seeking support through social media communities benefit from peer relationships yet encounter issues related to bullying incidents and fake information along with privacy threats. The available mobile apps come with self-help tools but their lack AI-driven monitoring mechanisms and emergency response capabilities makes them insufficient. Vulnerable users find limited success with such platforms because of incomplete access features and inadequate interaction rates. The identified difficulties demonstrate that societies require an AI- empowered secure system that delivers time-sensitive safety measures along with mental health assistance.

The present system for supporting children online safety depends on governmental standards and specific platform safeguards and automated content filter systems. The data privacy standards of COPPA and GDPR-K include parental controls as well as content filtering through which platforms enable age- restricted entry. The existing content moderation systems face multiple major issues because they demonstrate inconsistent regulatory enforcement practices together with unreliable AI detection capacities and children finding ways to work around restriction measures. Current digital literacy resources prove insufficient because they receive insufficient usage which leads to unprotected online areas. The existing online safety measures demand an improved system which better adapts to the needs of children while proving more effective.

Women and children currently benefit from SOS applications and GPS devices alongside CCTV but these solutions must be manually activated first before providing help. Their systems only guarantee physical security yet they do not offer AI- powered counseling or peer networking services for mental health support. These safety systems work less effectively when GPS systems and internet connections are unreliable thus creating limited safety areas. A comprehensive solution needs to emerge because it must address both safety needs and emotional wellbeing requirements.

IV. PROPOSED SYSTEM

The platform employs artificial intelligence for an innovative solution that protects both safety and psychological stability of women and children. Current safety applications use SOS alerts with GPS tracking and security personnel while depending on manual operation but these methods produce reactive results instead of proactive ones. These applications do not provide solutions for psychological troubles nor mental health problems. The solution uses ML, DL along with NLP to deliver instant emotional assistance while maintaining security support. The emotional AI chatbot feature represents a central platform element that delivers virtual counseling and performs sentiment-based intervention functions. The chatbot differs from typical platforms since it detects emotions automatically to provide suitable guidance while users do not need to start help first. The chatbot system provides emotional counseling assistance in addition to offering strategies for stress management and crisis stabilization to users who experience distress or anxiety. The system enables people to access help right away and lets them avoid experiencing judgment from receiving professional support. Users can participate in emotional well-being practices through gamified learning activities included in the platform. Poor user retention exists in mental health solutions because these solutions do not maintain user engagement effectively. Emotional support becomes more compelling and effective through the implementation of

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interactive exercises with challenges along with custom progress indicators that monitor patient growth. The gamified system promotes user engagement because it combines mental wellness activities with interactive features that motivate people to develop mental resilience in an enjoyable manner.

The platform functions as a major educational institution which guides users about their legal rights. Women and children struggle because they are not aware about protective laws and safety procedures. Users find all necessary protective knowledge through simple legal advisory content as well as educational examples alongside key resources that enable self-defense capabilities. The included legal awareness functionality covers an essential weakness in contemporary safety solutions so users become capable of making educated decisions when faced with dangerous circumstances.

This system was created using Flask and NLP technology to deliver an interactive safe electronic platform which users can easily access. The system adjusts automatically based on user emotional state assessments which enables it to customize its support according to real-time monitored emotions. The platform implements security measures which allow users to enjoy private protected communications.

The platform gives comprehensive support to vulnerable individuals through its combination of real-time emotional assistance with gamification of mental health tools and lessons about legal rights. Traditional safety systems with their limited reactive approach get replaced by this platform which provides continuous AI-based support to enable users. The system achieves a wholesome support environment through its secure digital space which welcomes users with engaging protection and emotional strength.



The illustrated block diagram establishes a complete interface which supports emotional health initiatives and legal understanding with special emphasis on maternal and child populations. The system combines various elements to conduct emotional evaluation while providing wellness activities and delivering awareness information about user rights. Users who interact with this system receive emotional support as well as vital legal information to safeguard themselves because the system connects technology with people-oriented solutions. Users access the system through the User Interface Layer that functions as a platform entrance for all platform interactions. The system provides access through websites or mobile applications which enable users to express their emotions when they need to using text messages speech and video communication features. Users can navigate the platform with ease because the interface provides straightforward accessibility together with user-friendly functionality.

The Emotion Detection Module starts its analysis of user emotional state after input reception. This module uses Natural Language Processing (NLP) technologies alongside voice recognition and facial analysis systems to identify text and voice tones then evaluate stress levels and facial expressions. The system establishes emotional categories such as sadness and anxiety and distress to select which response will be most helpful either by offering wellness services or pointing users towards legal support.

The Gamification & Mental Wellness Activities module within the system presents interactive solutions that aid users in improving their mental well-being when they are emotionally distressed. The platform provides users with mindfulness exercises combined with guided meditation and stress-relief games together with motivational content. These activities become effective and engaging through gamification elements which enable users to deal with their

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emotions constructively. The module promotes user participation to help users gain confidence in their ability to regulate their mental health.

The Legal Rights Awareness Module appears to users when they need legal information to explain their rights alongside protective defense methods. Users become aware of legal safety standards regarding personal protection through this module while the system also provides emergency hotline access and legal assistance services. Such module functions as a significant power tool that helps people know about their protection procedures when seeking justice.

User actions together with emotional evaluations and legal references are archived and controlled through the central Database Layer component. The module delivers tailored suggestion systems through its capability to monitor user records together with user preference data. This system also maintains current legal information and allows the emotion detection module to enhance precision through continuous learning processes.

The system functions as a carefully designed complete approach to merge emotional processing with mental care platforms with legal information capabilities. This innovative solution helps people find instant comfort while building enduring capabilities which makes it an effective instrument toward improved safety and enhanced mental health and personal advocacy. The platform provides a safe interactive environment by using AI-driven insights together with available resources which supports individuals facing difficult situations.

IV. RESULT

The Platform marks a transformative advance by combining modern technological support systems for emotional help with security information and safety prevention features into an intuitive interface. The platform delivers personal-time real-time assistance to emotionally distressed people through its implementation of Artificial Intelligence (AI) and Machine Learning (ML) with Deep Learning (DL) technologies. The chatbot capacity of this platform features Natural Language Processing (NLP) technology that provides emotionally attentive counseling along with stress reduction methods and mental health exercise guidance which reshapes its delivery based on user emotional states.

Every user gains empowerment through education about both emotional support and legal rights because the system shows them how to use self-protection laws along with cyber security methods and access emergency help programs. Users establish connections with suitable support services.

can access timely relevant legal information from the AI- controlled chatbot system which operates better than conventional static resources. Real-time intervention safety protocols on this system identify significant distress cues to establish connections with suitable support services.

Users gain an engaged experience in mental wellness through the gamified platform which presents hands- on self-care tasks and emotional resilience tasks and behavior measurement tools. The platform features which promote regular use transform wellness into an enjoyable structured process. Safety Haven presents itself as a comprehensive digital system which combines mental health care with legal rights protection through proactive intervention features while ensuring security and privacy and ethically implemented artificial intelligence.

V. FUTURE SCOPE

The platform's prospects depend on increasing its user base while enhancing its AI functions to provide superior intuitive and inclusive customer support. Major development should include a predictive AI system which analyzes extended behavioral patterns to identify increasing emotional distress levels and burnout symptoms in advance. With this advancement the system would develop from only reactive measures into developing predictive care to provide early crisis prevention.

The platform should offer multilingual AI assistance along with voice dialogue because it will help users from around the world including people with disabilities to connect with ease. The platform could achieve real-time well-being recommendations through wearable device integration which monitors stress levels beside heart rate variability along with sleep patterns based on physiological data.

Mental wellness engagement improves with Virtual Reality (VR) and Augmented Reality (AR) therapy modules which create individual-dynamic meditation practices and personalized stress relief environments. Blockchains encrypt mental

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health information securely through tamper-proof storage mechanisms which provide complete privacy management to users.

The platform can develop into a collaborative support system which joins users with peer supporters and wellness monitors and professionals to provide community- based emotional assistance through its features. The system's ability to recognize both technological changes and user requirements enables it to redefine the mental health-AI-legal power trio thus it makes emotional safety support easier to access with enhanced efficiency across the globe.

VI. CONCLUSION

A new groundbreaking platform demonstrates an advanced way for people to handle digital security together with emotional care. Users gain real-time access to practical resources and guide.

This platform develops trust among vulnerable groups through its main feature. The AI-based system delivers individualized care to users using a friendly approach which takes away common obstacles like discrimination, accessibility barriers and professional staffing limitations. The accessible mental health services together with legal guidance create resilient individuals who can make better decisions for safe offline and online interactions.

The platform delivers more effective traditional service provision because it provides elastic immediate assistance that adjusts to accommodate various customer requirements. The online platform works to fill mental health knowledge gaps and digital security gaps because it provides help to individuals who benefit from cultural changes in well- being and empowerment.

Every user which includes people from all age groups and backgrounds with varying technology skills has access to an advanced support platform tailoring its services toward their safety together with mental health assistance and personal development.

The platform exceeds its roles as an instrument to become an active agent which drives social advancements. The platform delivers a new approach for communities to manage their mental health and digital security which brings effective help and promotes inclusivity and readiness for the digital future. The innovative platform which understands user needs explores new possibilities to create a society that is better protected and both mentally healthy and well educated.

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