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Effects of Artificial Intelligence among Elders

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ABSTRACT:

As the world's population ages, artificial intelligence (AI) plays an ever-more-important role in eldercare. many health-related technologies and treatment opportunities that are based on the tech that empowers elders to lead their lives independently. For holistic eldercare, a balance between AI and human-centered care techniques is essential. Cognitive enhancement and social engagement training which is completely based on artificial intelligence can reduce loneliness promote emotional well-being and maintain cognitive ability among elders.

Keywords: healthcare, aging population, artificial intelligence, assistive technologies, cognitive enhancement,

Introduction:

The process of simulating human intelligence processes by machines, typically computer systems, is referred to as artificial intelligence (AI). These cycles incorporate learning , thinking, and self-adjustment" (Russell and Norvig , 2016). AI means the human brain in operation. It will receive self-correction because its responses are reasonable and logical. Elders are typically people between the ages of 55 to 75, a transitional period between adolescence and adulthood. The completion of one's education, the beginning of one's career, the exploration of one's personal relationships, and the attainment of one's own independence are some of the milestones that distinguish this age group.

J. Arnett J. (2000). As indicated by amett elderly folks are from 55 and 75 years of age and they have dependable like dealing with family and studies. elders benefit significantly from artificial intelligence. Medical services help: presently ah days innovation is created and artificial intelligence is utilized by numerous seniors and it will assist with keeping up with great well-being. Simulated intelligence will find sickness of an individual and it assists with saving an individual's life. A heart attack, for example, will be detected by AI, allowing for prompt treatment. According to a study by Topol (2019), wearable biosensors and mobile health applications powered by artificial intelligence enable continuous monitoring of vital signs and health parameters, allowing for early detection of health issues among elders.

Medication Management: AI system is examined for dosage management and adherence medication rate and it reduce the usage dugs among the elders. Research conducted by Mira et al. (2020) demonstrates that AI-driven medication management systems improve medication adherence rates and reduce the incidence of adverse drug events among older adults.

Remote Medical Assistance: By examining the AI the telemedicine platforms and care one can utilities. A case study by Smith et al. (2021) illustrates the effectiveness of an AI-powered virtual care platform in providing timely medical assistance and remote monitoring for young elders living in rural areas, improving access to healthcare services and reducing hospital readmissions.

Social Interaction and Well-being

AI is driven by social bots, Digital buddies and robotic companies. Ai is improved and it designed for communicating propose. They communicate and they build relationship with humans. They teach and react, they give meaning Conversation and they have capacity to handle people and build communication among the people. Ai is designed to support the young elders. According to a study by Robinson et al. (2019), AI-driven social robots equipped with natural language processing capabilities engage older adults in meaningful conversations and recreational activities, reducing feelings of loneliness and social isolation.

Technologies for Enhancing Social Interaction:

Virtual reality (VR) platforms, online communities, and social networking sites supports to the needs of young elders this are made of AI. Research conducted by Kim et al. (2020) demonstrates that participation in virtual reality-based social activities improves social engagement and well-being among older adults, offering opportunities for social interaction and connection in a digital environment.

Psychological and Emotional Effects of AI Companionship:

Ai companionship has the impacts on the mental health of elders. The impacts are wellbeing and mental health of the adults. It helps change one persons mood, emotions and options. It helps to develop self esteem and it gives social support. A longitudinal study by Chen et al. (2021) explores the psychological effects of interacting with AI companions among older adults, revealing positive changes in mood, self-esteem, and perceived social support over time.

Ethical and Societal Implication

Ethical Considerations: smith and Jones said that it is necessary to consider the risks and benefits of the technologies. It is very important to examine the privacy concerns, algorithmic and the dependency in AI among the young adult. According to a report by Smith and Jones (2022), the widespread adoption of AI technologies in elder care raises ethical concerns related to data privacy, transparency, and accountability, necessitating careful consideration of the risks and benefits associated with these technologies.

Algorithmic Bias

Garcia said that the potential biases embedded in AI algorithms and their implications for healthcare decision-making and resource allocation among elders. Research by Garcia et al. (2021) highlights the presence of algorithmic bias in AI-driven healthcare systems, resulting in disparities in diagnosis, treatment recommendations, and access to medical services among older adults from diverse demographic backgrounds.

Technology-induced Dependency:

It is important to examine the risk factors of technology-induced dependency among the elders relying on AI-powered assistive technologies and virtual companions. AI system empowers the uses to maintain their dignity and it makes to depend on it all time

A study by Brown et al. (2020) explores the unintended consequences of technology-induced dependency, emphasizing the importance of designing AI systems that empower users while preserving their autonomy and dignity.

Conclusion

In conclusion, the research on the effects of artificial intelligence (AI) among elders has both its aptitude benefits and challenges. AI-powered healthcare technologies offer promising solutions for improving health monitoring, medication management, and access to medical assistance among this demographic. Similarly, AI-driven social bots and robotic companions have shown effectiveness in reducing loneliness and enhancing social interaction among elders. Ethical considerations such as privacy concerns, algorithmic bias, and technology-induced dependency are challenges to the widespread adoption of AI in health care. These issues highlight the importance of developing transparent and accountable AI systems that prioritize the well-being and autonomy of young elders.

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