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Empowering Autism Support: The Future of AI Applications for ASD

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ABSTRACT

Artificial Intelligence (AI) has emerged as a transformative force in supporting individuals with autism spectrum disorder (ASD), with its impact spanning from diagnosis to daily living assistance. AI-driven diagnostic models are revolutionizing early detection of ASD by analyzing complex datasets, including genetic markers, neuroimaging, and developmental patterns, potentially identifying ASD indicators earlier and more accurately than traditional methods. This early identification can significantly enhance long-term outcomes for individuals with ASD. In therapeutic applications, AI has created adaptive learning environments that provide flexible interaction settings to improve social skills and reduce anxiety. Personalized intervention plans are now possible through AI systems that learn individual patterns from collected data, tailor therapies to specific needs, and provide real-time feedback through interactive applications. These AI-powered tools continually adapt, ensuring support strategies evolve with the individual's changing needs. Looking to the future, AI holds immense potential for further advancing ASD support. Predictive analytics may soon forecast developmental trajectories and potential challenges, allowing for proactive interventions. As AI technology evolves, AI could play a pivotal role in revolutionizing education and skill development for individuals with ASD.