

AI Buddy: Redefining Companionship

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Abstract: *AI Buddy is an innovative emotional companion designed to redefine human companionship through immersive AI technology. It utilizes voice simulation and holographic or VR projection to replicate the presence, personality, and voice of loved ones—such as a parent, friend, mentor, or even an imagined individual. The core objective is to mitigate loneliness, provide 24/7 emotional support, and boost mental wellness in a positive and encouraging manner for a better lifestyle. To use an AI Buddy, users provide basic details about their chosen person—such as their name, behavior, habits, and how they interact with others and with the user. This information helps model the person's personality. By providing voice samples and images, the system performs voice cloning and generates a holographic or VR projection of the person for the user. It acts as a companion, available during times of need—whether for conversation, positive advice, or guidance. It does this by analyzing your facial expressions and the situations you describe or discuss. Beyond personal use, AI Buddy offers valuable applications in industrial settings, including healthcare, education, and elderly care. By prioritizing a privacy-focused and customizable design, this project paves the way for more advanced and supportive AI companions.*

Keywords: Emotional Companion, Holographic/ VR projection, Personalized AI, Voice Cloning, Emotion Recognition

