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(57) Abstract :
[051] The present invention relates to an AI-enabled emotional wellness monitoring and support system designed for caregivers of differently-abled children, wherein publicly accessible or consented social-media posts are continuously analysed using machine-learning algorithms to detect stress indicators, negative sentiment, and emotional-trend deviations. The system comprises a data collection module, preprocessing engine, stress keyword detector, sentiment-analysis subsystem, emotional-trend computation module, and risk-evaluation unit that collectively generate a dynamic emotional-risk score. When emotional distress exceeds predefined thresholds, an intervention engine delivers personalised self-care guidance, mental-health resources, and context-aware recommendations, while an AI Family Connector, operating strictly through user consent, privately alerts trusted family members to enable timely social support. The invention provides a privacy-preserving, proactive, and contextually intelligent solution for early detection, monitoring, and mitigation of emotional decline in caregivers, thereby enhancing their overall psychological resilience and well-being. Accompanied Drawing [FIGS. 1-2]

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