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(57) Abstract :
The present invention discloses an AI-enabled device (100) for early detection of skin cancer. The device comprises an image acquisition unit (110), AI-based processing module (120), connectivity unit (130), and user interface (140). By capturing high-resolution dermatological images and analyzing them with convolutional neural networks, the device provides real-time classification of lesions as benign or malignant. The inclusion of cloud-based connectivity (130), auxiliary sensors (150), and portable design ensures accurate, cost-effective, and accessible diagnostic support, particularly in underserved regions.

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