Skin Cancer Detection Ai

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Problem Statement

- The increasing global prevalence of skin cancer underscores the need for early detection, accessible diagnostic tools, and effective triage to prioritize high-severity cases

- Limited access to specialized dermatological care often delays diagnosis, leading to poor outcomes

Solution

- The AI-powered Skin Cancer Detection App enables early diagnosis through image analysis, mole tracking, and triage of high-severity cases for prioritized medical attention.

- It combines user-friendly tools, educational resources, and dermatologist-validated AI to deliver over 95% diagnostic accuracy.

Benefits of our solution – how it helped in BET

★ Our solution boosts profitability by enabling early detection, reducing costly late-stage treatments, and improving patient retention. It lowers expenses through operational efficiency and proactive monitoring, while driving revenue growth via premium services, broader market reach, and triage prioritization.

Challenges

☑ **AI Model Development:**

- Data Quality and Quantity: Training the AI model requires a large, high-quality dataset of skin lesions, which can be difficult to obtain.

☑ **Image Capture Consistency:**

- User Variability: Users may capture images with varying lighting, angles, and distances, affecting analysis quality.

☑ **Integration with Healthcare Systems**

- Interoperability: Integrating the app with existing healthcare systems for seamless data sharing can be complex..

Technology Details

- **Backend:** Python (Flask), Convolutional Neural Network (CNN) sequential model
- **Frontend Mobile app:** React native
- **Deployment:** AWS (EC2)
- **Database:** SQL

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Screenshots