**PROBLEM STATEMENT:**

Skin diseases are a common and diverse group of medical conditions that affect millions of people worldwide. Traditional diagnostic methods often rely heavily on the expertise of dermatologists and may not always be accessible to everyone.

**PROJECT OVERVIEW:**

MediRec is an AI-based skin disease detection solution. It uses machine learning and computer vision to detect the diseases automatically from images uploaded by users. For this solution, it accurately classifies several diseases, ranging from simple conditions to serious diseases such as skin cancer. In turn, the system minimizes cases of misclassification and flags high-risk cases for further professional consultation. MediRec increases access to dermatological care, enabling users to rapidly evaluate the health of their skin, thus encouraging early detection and reducing the number of first specialist consultations.

**SOLUTION OFFERED:**

It proposes a unique model where AI technology in skin disease prediction is united with a convenient interface through chatbots. Skin condition images uploaded can immediately detect diseases, showing the condition's name and accuracy rate from the site. This solution, in addition to making skin health assessments fast and accessible, will provide personalized guidance, empowering the user to make informed decisions on their skin care. Combining automated analysis with a conversational interface, MediRec offers a seamless, user-friendly experience.

**WHO ARE THE END USERS?**

**General Public:** Individuals seeking quick and accessible assessments of their skin conditions. This could be anyone experiencing common skin issues or

**People in Remote Areas:** Individuals who may not have easy access to dermatologists or healthcare facilities, benefiting from the convenience of a virtual diagnostic tool.

**Individuals with Skin Conditions:** People who have ongoing skin conditions and want to monitor their skin health regularly without visiting a doctor each time.

**Health-conscious Individuals:** Those who are proactive about their health and want to catch potential skin issues early through self-assessment before seeking professional care.

**TECHNOLOGY USED TO SOLVE THE PROBLEM:**

**Frameworks**: TensorFlow, Keras.

**Programming Language:** Python.

**Algorithms / Machine learning model:** Convolutional Neural Network (CNN).

## **Tools:** ImageDataGenerator for augmentation.