





#### **TITLE-Smart Mirror**

#### By:

- 1. Shruti Kumari (12315593)
- 2. Anas Ali (12315094)

**Submitted to: Dipen Saini** 



#### > Introduction:-AI-Powered Smart Mirror

The **Savvy Reflect** is an AI-driven smart mirror that analyzes your skin in real-time, identifying skin type (sleek, dry, combination, or sensitive) and offering personalized skincare recommendations. It detects skin concerns like acne, pigmentation, and dryness, then suggests the right skincare products.

The mirror also evaluates your skin tone to recommend the most flattering clothing colors and adapts to your skin's changes over time. Integrated with beauty apps, it stores user profiles for continuous tracking and provides real-time feedback through an intuitive interface.



#### > **Key Points of ChatBot:-**

- □ -Smart Mirror with built-in **chatbot** + **camera** for skincare analysis.
- □ -Uses **image processing and AI models** to detect skin problems (e.g., acne, wrinkles, dryness).
- □ -Gives **personalized skincare suggestions** (products, routines, dermatologist tips).
- □ -User-friendly interface offering **instant feedback** through visual reports and suggestions.
- □ -Supports **multi-user profiles** to deliver customized skincare advice to different users in the same environment.



#### Objective of the Model:-

- To provide instant skincare analysis through a smart mirror.
- To suggest personalized skincare tips and product recommendations.
- To help users identify skin problems early.
- To make skincare advice more accessible at home.
- To offer a quick, easy-to-use system without needing a doctor's visit.
- To support multiple users with personalized profiles.



## **Challenges of the Invention:-**

- □ -Accurate Skin Detection: AI must correctly analyze different skin tones and types.
- □ -Lighting Issues: Bad lighting can cause wrong results.
- □ -Privacy Protection: User face images must be kept safe and private.
- □ -Not a Real Doctor: The chatbot must suggest real doctors for serious problems.
- □ -Building User Trust: Users may doubt advice given by a machine instead of a doctor.



## > Advantages

- Easy to Use: Get skin advice quickly while standing in front of the mirror.
- □ **Saves Time:** No need to check phones or visit clinics for basic skincare tips.
- □ Personalized for Each User: Gives different suggestions based on each person's skin.
- Modern Technology: Uses AI and smart tools to give a futuristic experience.
- Hands-Free: Just stand in front of the mirror no need to touch or talk.



### > OutComes:-

- ☐ Improved skincare habits and product choices among users.
- □ Boosted user awareness about skin health.
- Encouraged regular monitoring, leading to early care and prevention.
- Made dermatological advice more accessible at home.



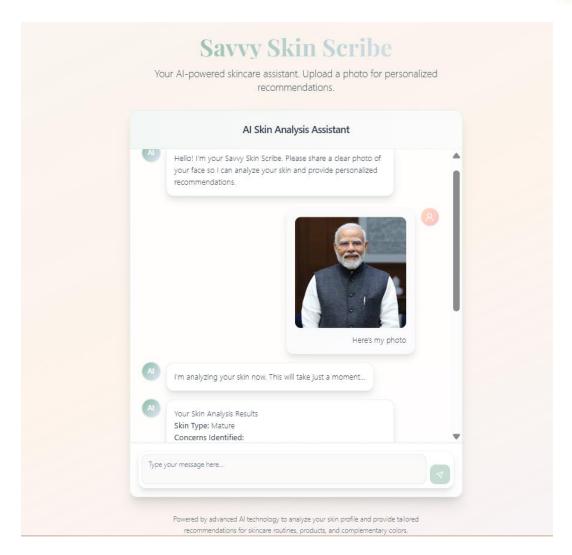
#### > Results:-

- □ Prototype systems show over **80% accuracy** in basic skin issues detection (depending on AI model quality).
- User feedback highlights the fun, helpful, and futuristic experience.
- □ Increased user engagement with beauty and wellness routines.





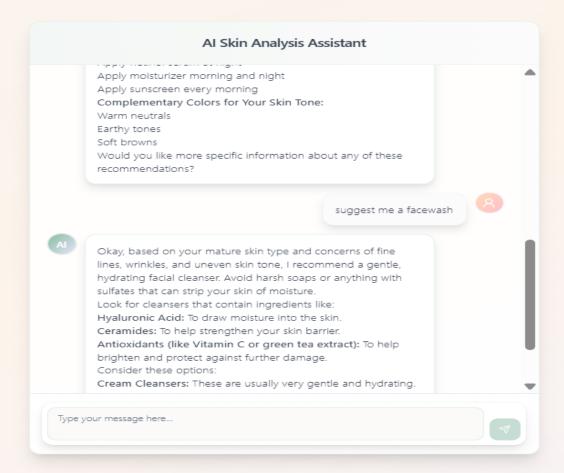
# Images :-





#### Savvy Skin Scribe

Your Al-powered skincare assistant. Upload a photo for personalized recommendations.



Powered by advanced AI technology to analyze your skin profile and provide tailored recommendations for skincare routines, products, and complementary colors.



### > **Future Scope:-**

- Advanced Skin Analysis: Detection of more skin conditions like melanoma (with caution and medical partnership).
- Integration with Dermatologists: Automatic appointment suggestions if serious issues are detected.
- Augmented Reality (AR): Visual try-ons for skincare or makeup effects.
- Global Skin Tone Database: Improve accuracy for diverse users worldwide.
- Product Recommendations Marketplace: Direct skincare product purchases via the chatbot.



□ **Host Link** – http://176.100.37.188:8080/

### Thank You