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أديم Adim

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adim - أديم skin condition and issues detection using machine learning

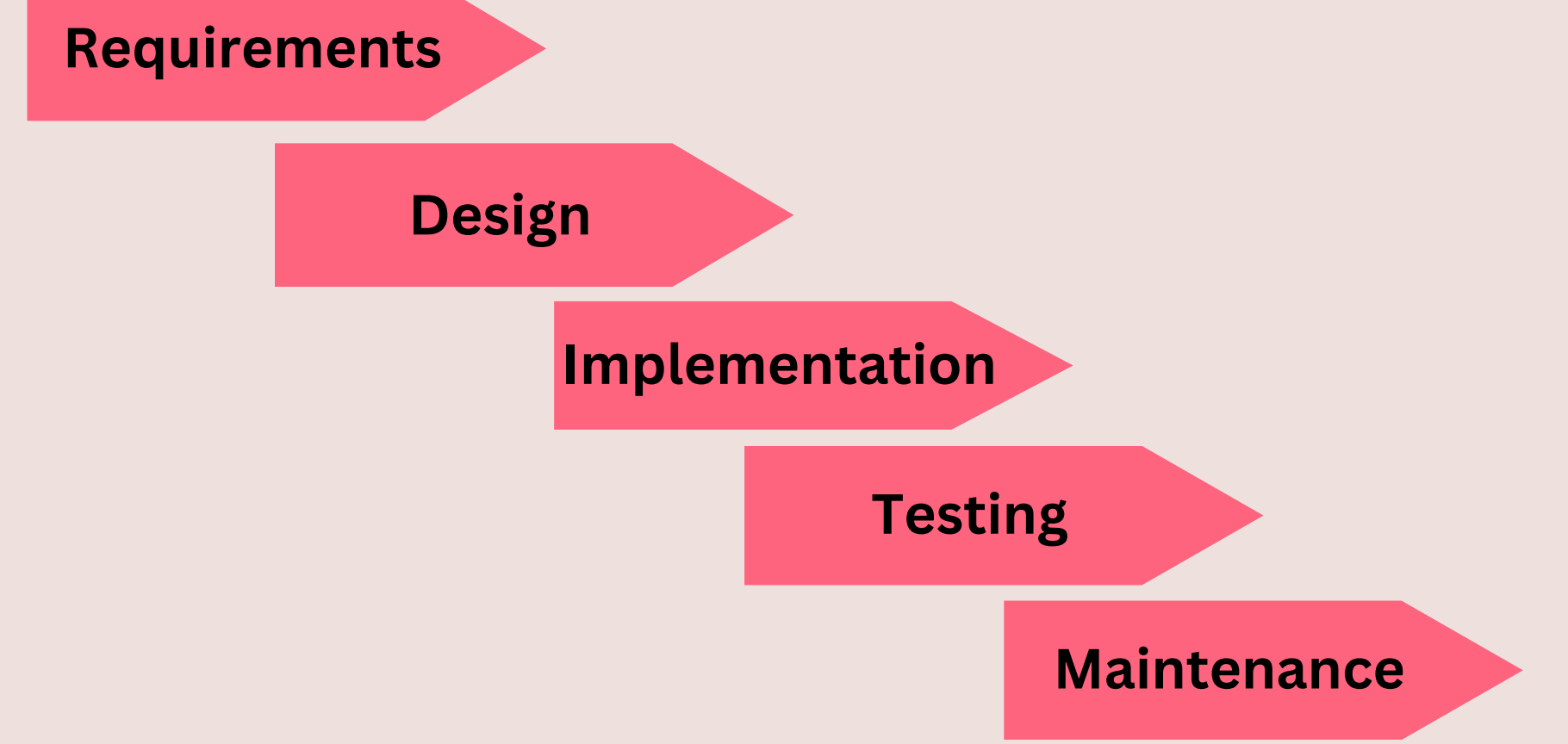
Project ID : CS-451-P2-F30
college of computers
department of computer science and artificial intelligence

Abstract

Skin issues and concerns encompass various types, including Acne-mild, Blackhead, Milia, Cystic, and Pustular. Acne-mild pertains to minor outbreaks of pimples, typically characterized by a few small, inflamed spots. Blackheads involve clogged pores with open comedones, appearing as dark dots on the skin's surface. Milia refers to tiny, harmless cysts filled with keratin that form just beneath the skin's surface. Cystic acne is a severe form of acne characterized by painful, deep-seated cysts. Pustular acne is marked by swollen, pus-filled pimples.

In response to the prevalence of these skin issues, we propose the development of an AI-powered application, "Adim - أديم" which leverages machine learning and deep learning techniques to effectively detect and analyze these skin issues from user-generated facial images. The application aims to provide users with comprehensive results and personalized advice to help address these specific skin concerns. Adim - أديم strives to enhance the quality of life for individuals dealing with common skin issues in the Middle East by providing a convenient and effective solution for their skincare needs.

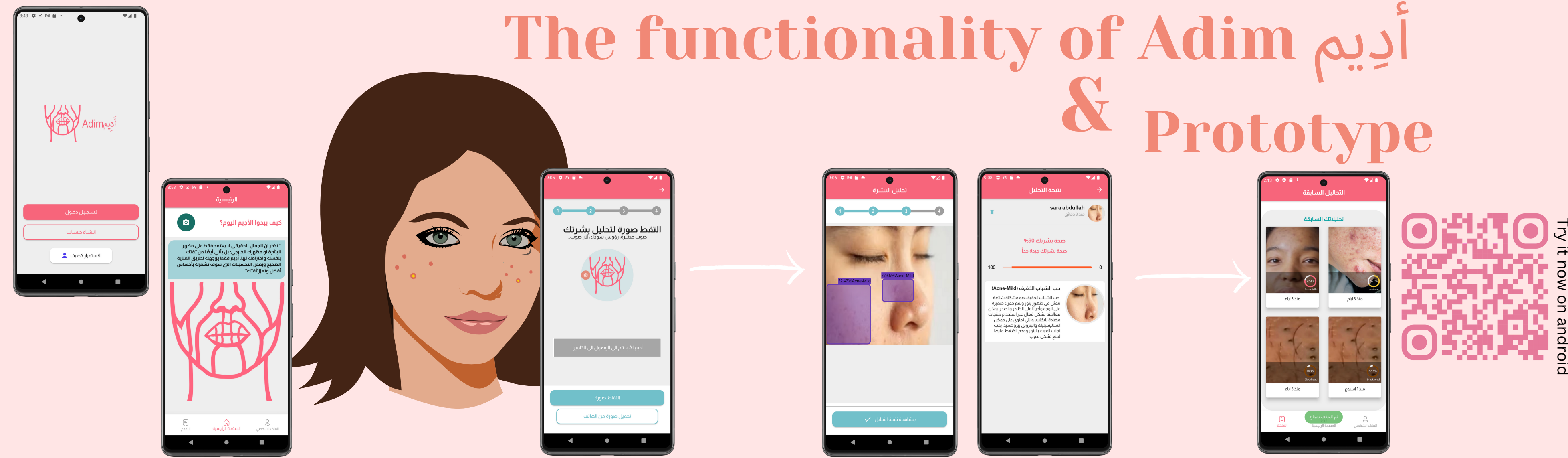
Methodology



The waterfall model

Adim features

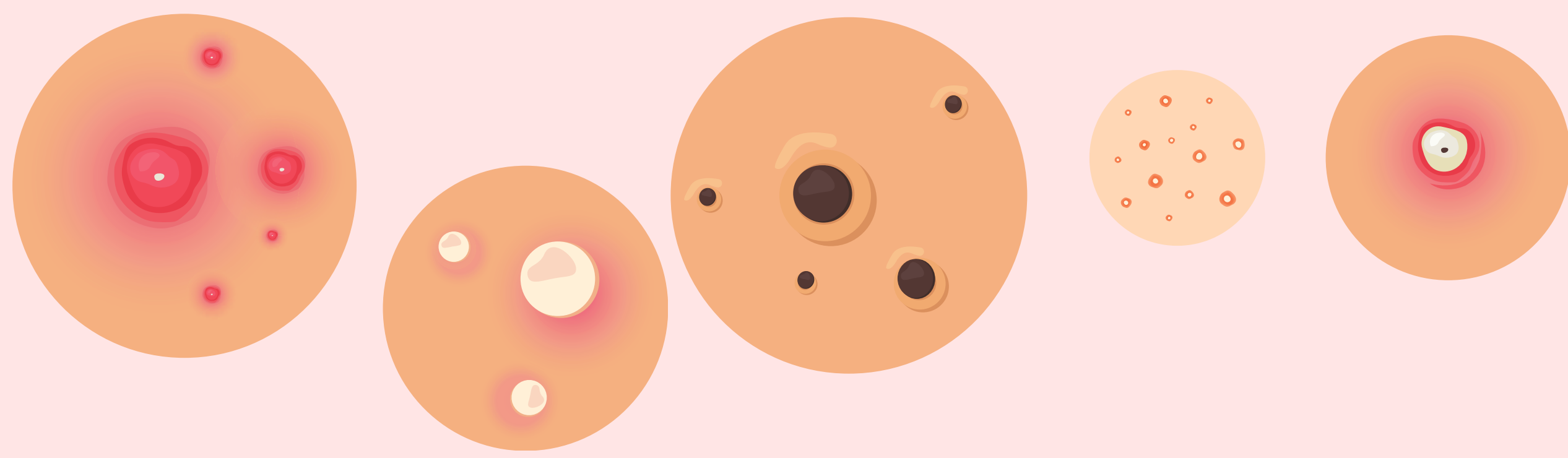
- Adim uses machine learning to identify skin conditions from facial images.
- Users can monitor their skin health or seek medical advice based on the results.
- Adim promotes awareness of skin conditions and treatment options.



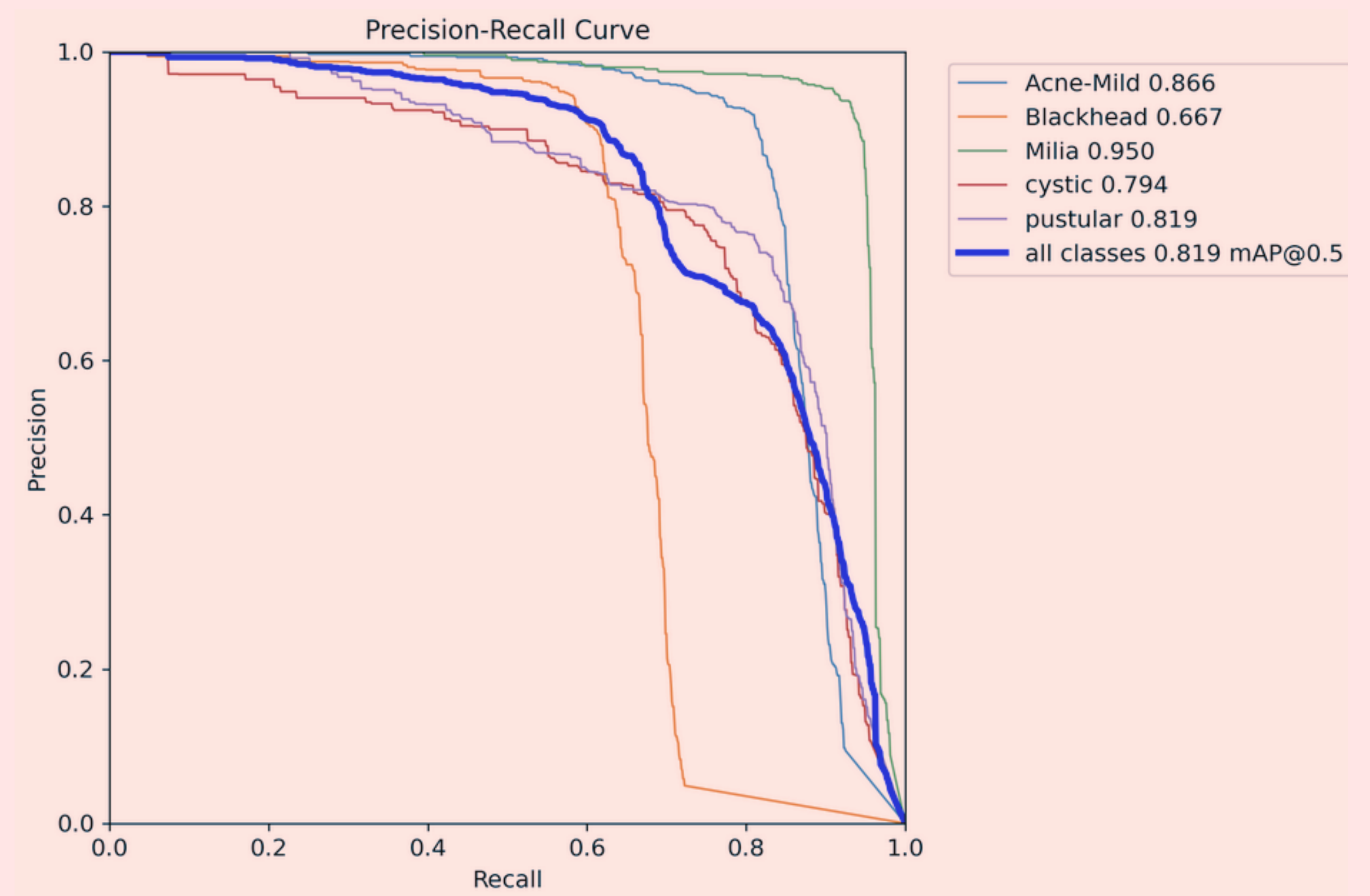
Dataset collecting

1. **Select** Skin Issues
2. **Gather** Images
3. **Label** Images
4. **Compile** Dataset

What Adim أديم can detect ?



Adim أديم model training result



Adim in the future

Personalized Product Suggestions

Collaborating with medical professionals and pharmacists to provide personalized product recommendations for users.

Comprehensive Solution

Going beyond skin issue detection to actively contribute to the user's skin health journey by offering guidance and solutions.

Advancements in Detection

Continuously improving machine learning models to detect a wider range of skin issues with greater accuracy.

Language Expansion

Expanding language support to include English, making the application accessible to a broader audience.

Tools

Conclusion

Adim exemplifies the power of AI and machine learning in the realm of skincare. Through its capability to detect and analyze diverse skin issues from user-generated facial images, Adim highlights the vast potential of AI in healthcare. By empowering individuals to take charge of their skincare with precision, it promises a future where personalized and accessible healthcare solutions are available for everyone.

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References :

