



Skincaire: an AI-Powered Skin Outbreak Tracker



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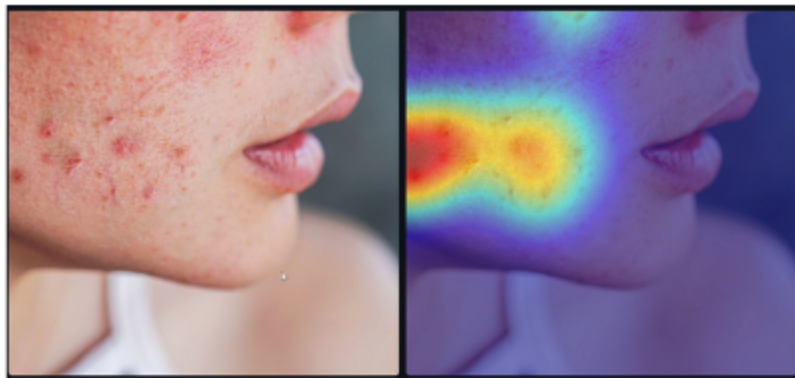


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Technologies



Severity Detection
Score, heatmap, detection



Analyzing ill Severity
Trends and Correlations with Lifestyle
and Environmental Factors



personalized skincare plan
Recommendations based on
user profile and timeseries



Frontend/Backend

Pipeline

- detection:** yolov8s trained on skin-issue-detection-g5uov Dataset, score and Heatmap inspired from Acne Ai Paper

$$S = \frac{200}{\pi} \arctan \left(20 \sum_{i=1}^N s_i \frac{a_i}{A} \right)$$

- Analyzing ill Severity:** using stored record from DB and statistical correlation
- Recommend:** MedLlama2 7B with 4-bit quantization

Positive Outcomes

- The application runs smoothly and tracks skin outbreaks effectively
- The heatmap provides a clear view of skin severity.
- The severity score is used to recommend treatments based on MedLlama

limitations

- The dataset used was limited and not ideal for training.
- No segmentation model was used; only bounding boxes were applied to estimate severity, reducing accuracy.
- Fitness watch data was not included for matching lifestyle patterns.
- The popular ACNE4 dataset was not available for training.

Time Spent

