



## SIMATS ENGINEERING

Saveetha Institute of Medical and Technical Sciences  
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**Course Code:** DSA0216

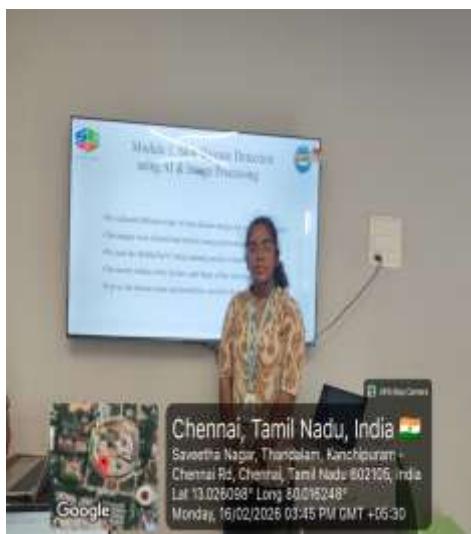
**Slot:** B

**Course Name:** Computer Vision with Open CV for modern AI

**Course Faculty:** Dr. Senthilvadivu S and Dr. T Kumargurubaran

### Smart Dermatology Assistant using AI and Image Processing

**Module Photographs:** (3 photographs –Module Photo, Individual student contribution module work in the project and presentation image)



**Module 1: Skin Disease Detection using AI & Image Processing**

We collected different types of skin disease images for training the model.

The images were cleaned and resized using preprocessing techniques.

We used the MobileNetV2 deep learning model to detect skin diseases.

The model studies color, texture, and shape of the skin lesion.

It gives disease name and prediction result for further analysis.



**Module 1: OUTPUT**

1. Upload & Analyse Image

Disease	Probability
Normal	0.00%
Acne	0.00%
Freckle	0.00%
Melanoma	100%
Wrinkles	0.00%
Edge	0.00%
None	0.00%
Normal	0.00%

### Project Description:

(here you write what you did in this project (contribution) including Model Description)

1. Early detection of skin diseases using AI-based image analysis.
2. System captures or uploads skin images for processing.
3. Pre-processing improves image quality (resize, noise removal, enhancement).
4. AI model extracts features like colour, texture, and shape.
5. Deep learning model classifies the skin disease and gives results.
6. Provides quick, low-cost, and accessible preliminary diagnosis.

**Student Signature**

**Guide Signature**