

Comprehensive Skin Lesion Analysis Report

Prediction: nv

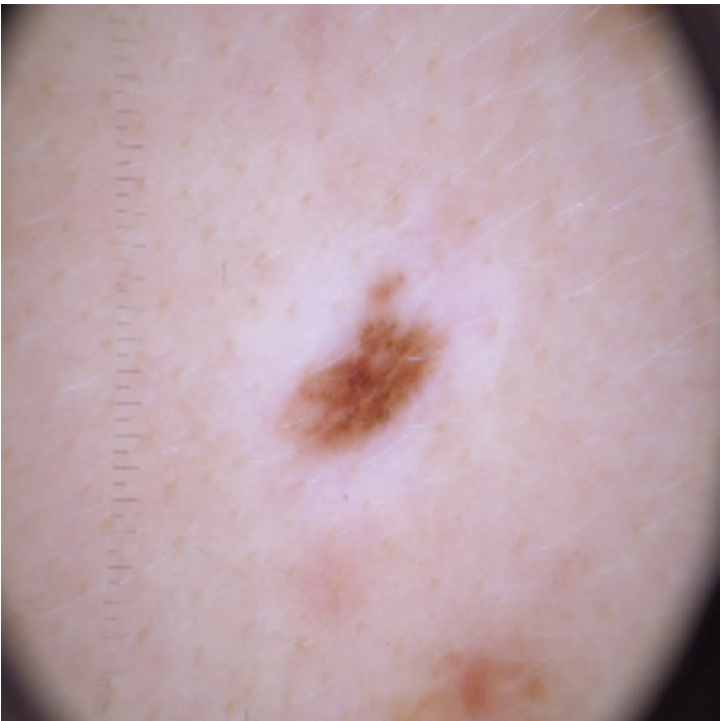
Confidence: 0.84

Generated on: 2025-03-19 06:41:21

This report is for research purposes only.

Image and Predictions

Original Image



Full Prediction Confidence

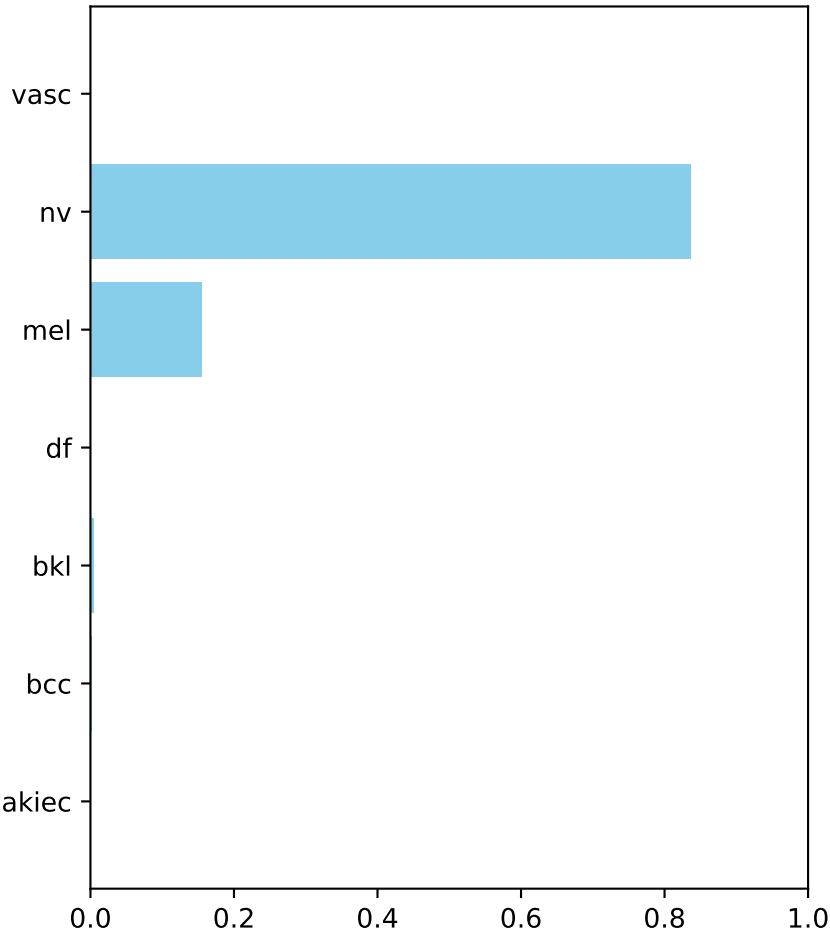
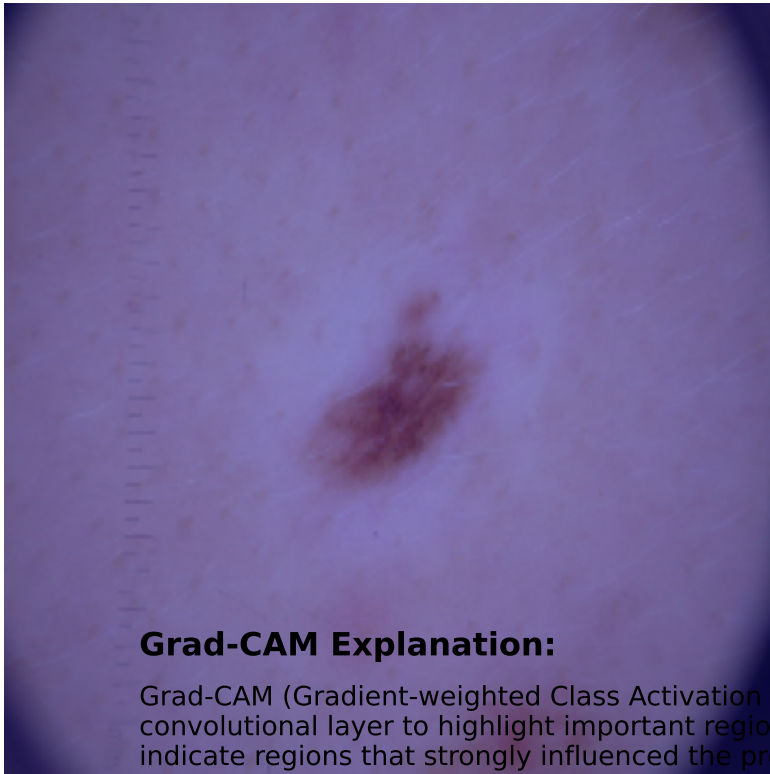


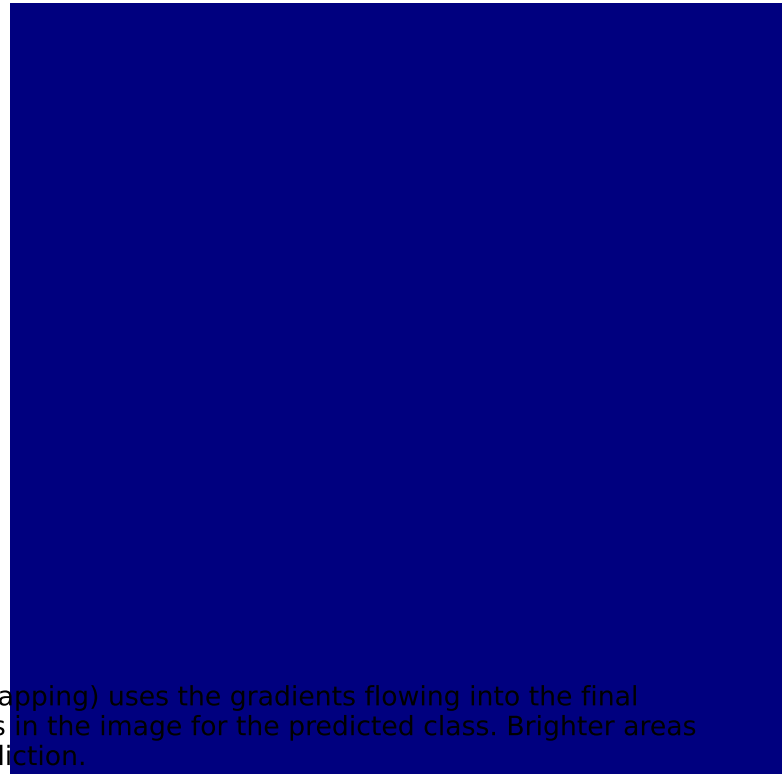
Image Name: sample_image
Date Analyzed: 2025-03-19 06:41:21
Model: SkinLesionModel
Image Size: 224x224
Top Predictions:
1. nv: 0.8362
2. mel: 0.1554
3. bkl: 0.0048

Explanation Methods - Part 1

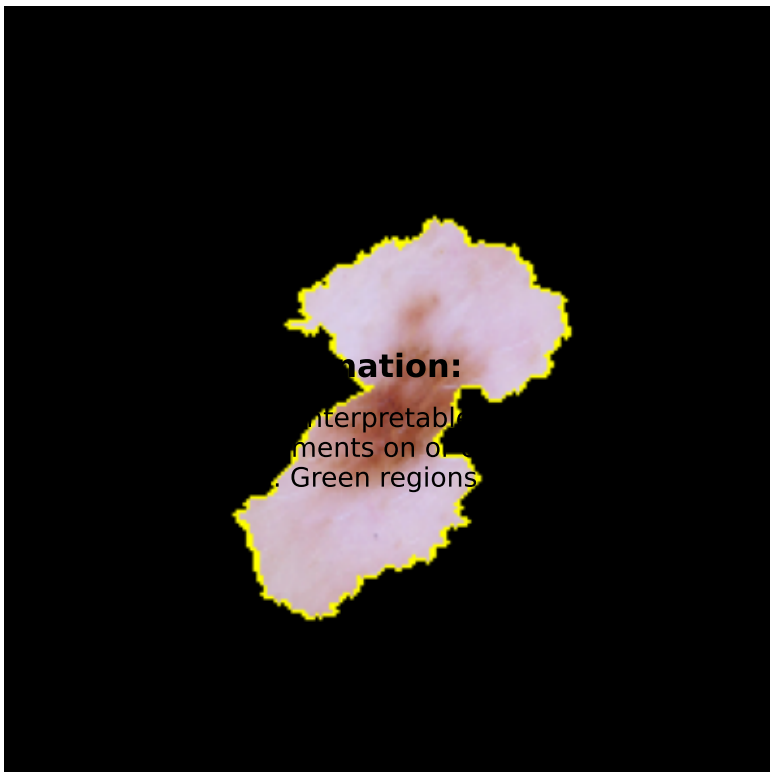
Grad-CAM Explanation



Grad-CAM Heatmap



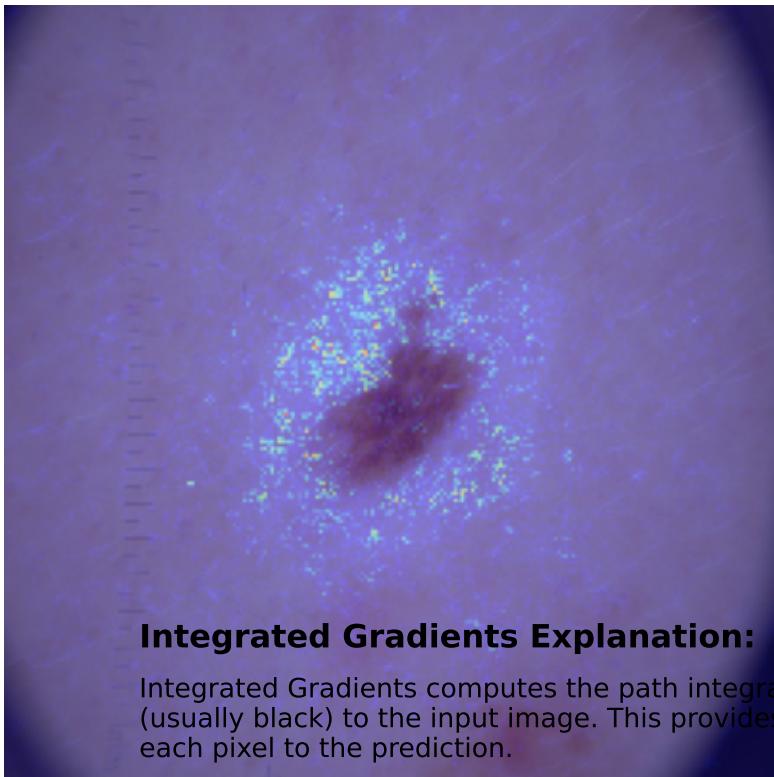
LIME Explanation



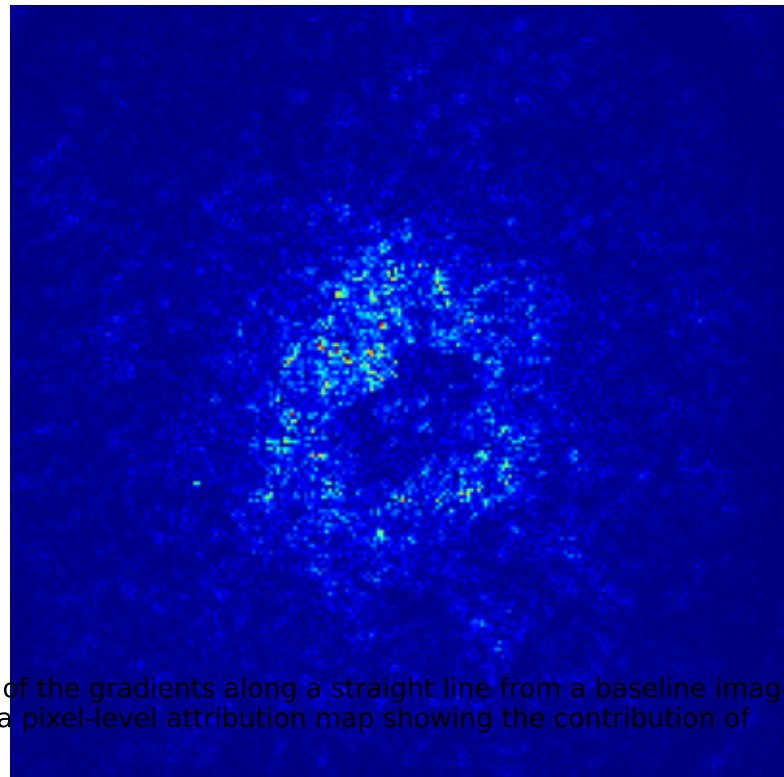
ations) perturbs the input image by segmenting it and uses a model to approximate how the segments affect the model's prediction. Green regions indicate positive contributions to the prediction, while red regions negatively contribute.

Explanation Methods - Part 2

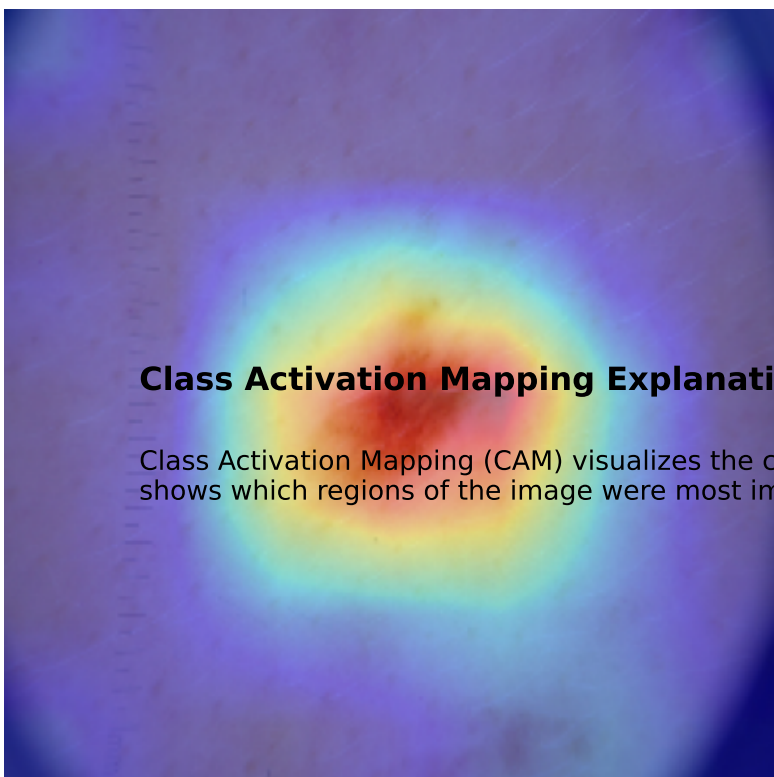
Integrated Gradients Explanation



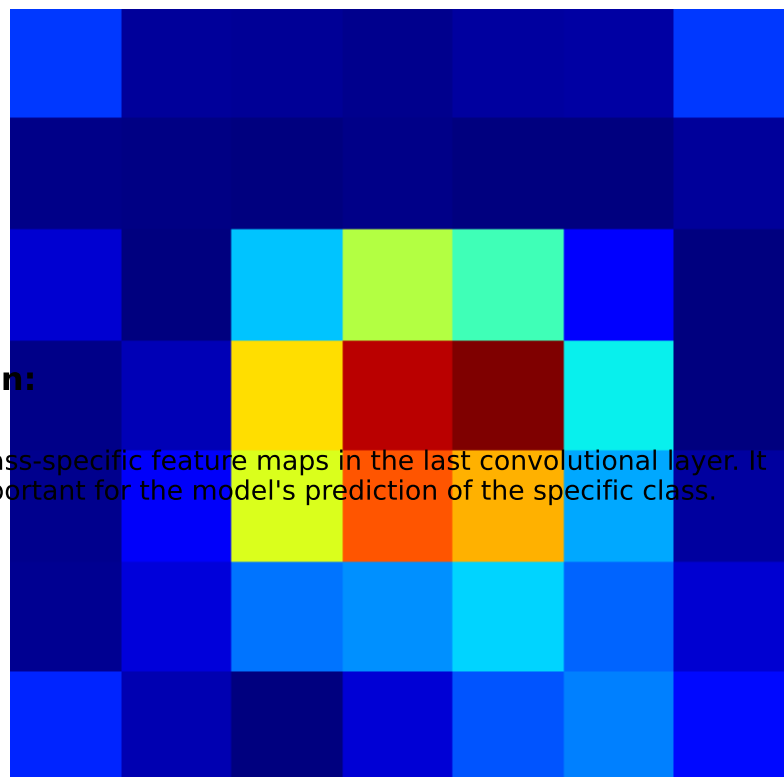
IG Attribution Map



Class Activation Mapping



CAM Heatmap



the model's decision-making process, but they are approximations and should be interpreted with caution. **Important Information**

For any concerns about skin lesions, please consult a qualified dermatologist. Early detection and proper medical assessment are crucial for skin cancer diagnosis and treatment.

About the Model:

Architecture: SkinLesionModel

Training Dataset: HAM10000

Classes: Melanocytic nevi (nv), Melanoma (mel), Benign keratosis (bkl), Basal cell carcinoma (bcc), Actinic keratoses (akiec), Vascular lesions (vasc), Dermatofibroma (df)

Explanations generated using multiple XAI (Explainable AI) techniques to provide a comprehensive understanding of the model's prediction.