

Patient Information

Full_Name: Jenifer

Age: 56

Gender: Female

Systolic: 180

Diastolic: 110

Glucose_Level: 343

BMI: 30.8

Duration: 14

Smoking: Yes

Hypertension: Yes

Family_History: Yes

Cholesterol: 230

HbA1c: 8.6

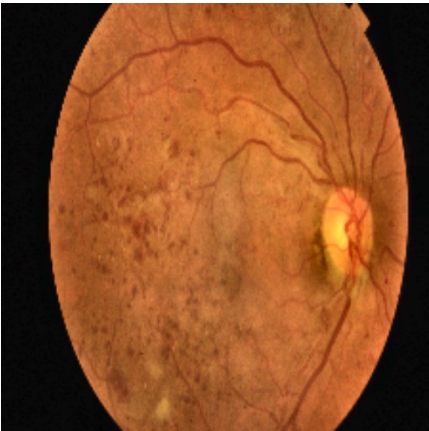
Insulin_Use: Yes

Physical_Activity: 1

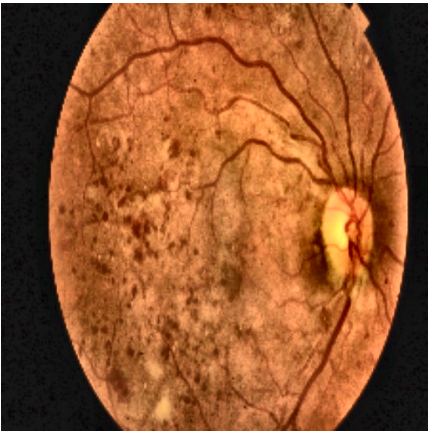
Medication: Yes

Diagnostic Summary

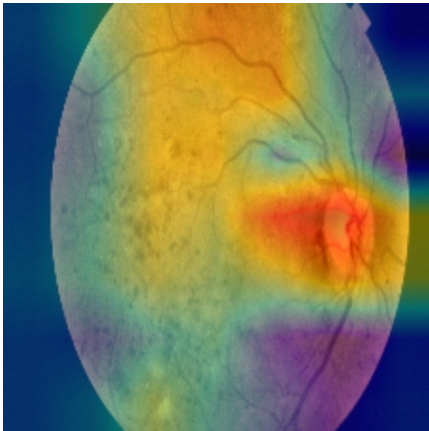
Predicted Stage: SEVERE
Model Confidence: 56.15%
Composite Risk Score: 96.40%
Original



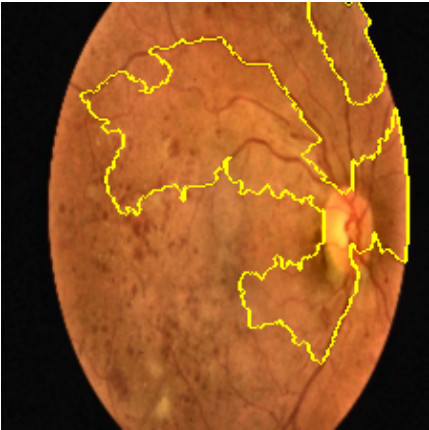
Preprocessed



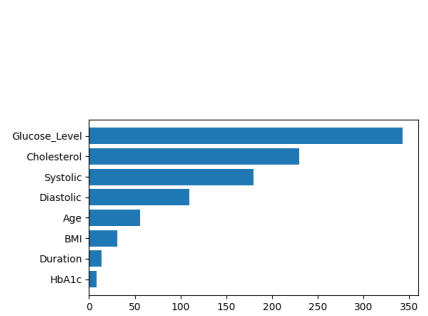
GradCAM



LIME



SHAP (Feature Importance)



Lesion Breakdown

Lesion Quantification:
exudates: 19.102
hemorrhages: 0.333
cotton_wool: 0.0
lesion_percentage: 19.435

Result Overview

Severe non-proliferative diabetic retinopathy with multiple hemorrhages.

What This Means

High risk of progression to proliferative disease; urgent review advised.

Eye Health Findings

- Multiple intraretinal hemorrhages
- Possible macular involvement

Risk Level & Next Steps