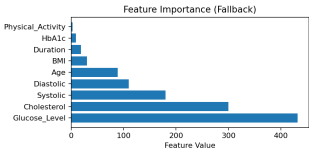
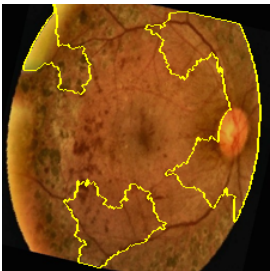
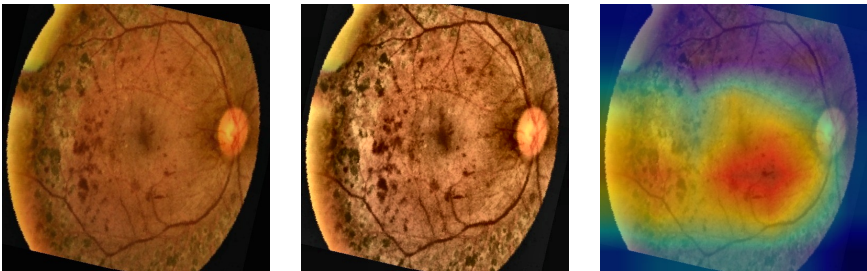


Stage: PDR

Metadata Snapshot

Name: sebastain
Age: 89
Gender: Female
Systolic (mmHg): 180
Diastolic (mmHg): 110
BMI: 30
Glucose: 432
HbA1c: 8.9
Cholesterol: 300
Smoking: Yes
Hypertension: Yes
Diabetes Duration: 19



Summary

- Research Notes
- UID: 6fc5facd
- Predicted Stage: Pdr

- **Model Architecture:**
 - CNN ensemble (EfficientNet, ResNet50, ViT) combined with metadata models (Random Forest, XGBoost) via calibrated fusion.
- **Explainability:**
 - Grad-CAM highlights spatial retinal features, LIME validates local pixel importance, and SHAP explains systemic risk contribution.
- **Probability Vectors:**
 - CNN: [0.007390813436359167, 0.007619400043040514, 0.008325896225869656, 0.007223432417958975, 0.9694404602050781]
 - ML: [0.21136369507961952, 0.20268235745827803, 0.19376393050773666, 0.19047474400645248, 0.20171527294791336]
 - Fused: [0.03798674560767015, 0.03687884358234068, 0.036141601296623284, 0.034711129087537575, 0.8542816804258282]
- **Inference Device:** CPU

