

Stage: PDR

ಮೆಟಾಡೇಟಾ ಸಂಗೋರಹ

ಹೆಸರು: solomon

ವಯಸ್ಸು: 67

ಲೋಗೆ: Female

ಸೌನ್ಯಟಾಲ್‌ (mmHg): 189

ಡಯಾನ್ಯಟಾಲ್‌ (mmHg): 110

BMI: 30.8

ಗ್ರೇಲ್‌ಎಂಪ್ಲೆ: 398

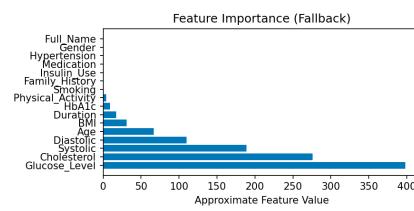
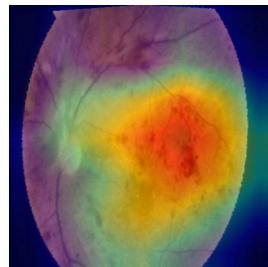
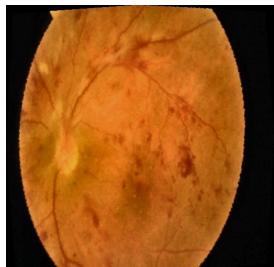
HbA1c: 8.9

ಕೆಣಿಸ್ಟಾರ್‌: 276

ಧೂಮಪಾನ: Yes

ರಕ್ತದೆಹಿತ: Yes

ಮಧುಮೈಕ ಅವಧಿ: 17



ಸಾರಾಂಶ

- Clinical Report — Ophthalmologist
- Patient: Name: solomon, Age: 67, BMI: 30.8
- Predicted stage: PDR
- Model confidence: 83.96%

- Risk score: 96.04%
- Findings (automated lesion quantification):
 - Microaneurysms: 26.90%
 - Exudates: 15.32%
 - Hemorrhages: 3.65%
 - Cotton Wool: 0.00%
 - Neovascularization: 30.00%
 - Total Lesion Load: 45.88%
- Clinical interpretation:
 - Features consistent with proliferative DR (neovascularization). Immediate retina specialist referral recommended (consider anti-VEGF / PRP).
- Model & Explainability:
 - Multi-model fusion: CNN ensemble (EfficientNet, ResNet50, ViT) + metadata models (RF, XGBoost, stacked ensemble).
 - Explainability outputs available: GradCAM++, LIME, SHAP — review heatmaps and overlay masks.
- Performance metrics:
 - Accuracy: 0.947
 - F1-score: 0.938
 - AUC/ROC: 0.971
- Suggested clinical action items:
 1. Correlate with slit-lamp exam and fundus exam.
 2. If macular edema suspected, obtain OCT imaging.
 3. For suspected PDR, arrange urgent retina referral for potential PRP/anti-VEGF.
 4. Document lesion masks if available for audit.

