

Stage: PDR

ಮೆಟಾಡಿಟಾ ಸಂಗೋರಹ

ಹೆಸರು: Sebastian

ವಯಸ್ಸು: 89

ಲೋಗ್: Male

ಸೌನ್ಯಾಳಾಲ್‌ (mmHg): 180

ಡಯಾನ್ಯಾಳಾಲ್‌ (mmHg): 110

BMI: 30

ಗ್ರೇಲ್‌ಎಂಪ್: 398

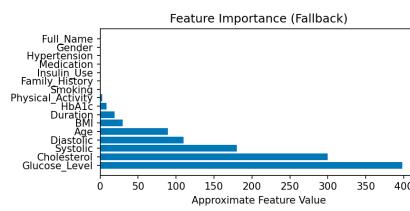
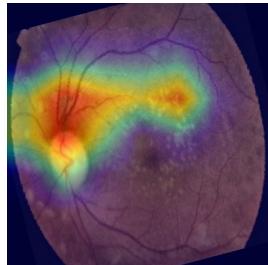
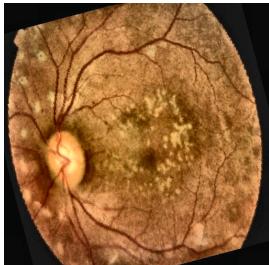
HbA1c: 8.7

ಕೆಣಿಸ್ಯಾರ್ಟಾಲ್‌: 300

ಧೂಮಷಾಸನ: Yes

ರಕ್ತತದೀಕ್ರಿತಡ: Yes

ಮಧುಮೈಕ ಅವಧಿ: 19



ಸಾರಾಂಶ

- Clinical Report — Ophthalmologist
- Patient: Name: Sebastian, Age: 89, BMI: 30
- Predicted stage: PDR
- Model confidence: 85.74%

- Risk score: 96.05%
- Findings (automated lesion quantification):
 - Microaneurysms: 20.31%
 - Exudates: 21.52%
 - Hemorrhages: 2.56%
 - Cotton Wool: 0.00%
 - Neovascularization: 30.00%
 - Total Lesion Load: 44.39%
- 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.

