

Stage: NO_DR

ಮೆಟಾಡಿಟ್‌ ಸಂಗೋರಹ

ಹೆಸರು: jenifer

ವಯಸ್ಸು: 22

ಲೋಗ್: Female

ನೋನ್‌ಟಾಲೋಕ್ (mmHg): 130

ಡಯಾನ್‌ಟಾಲೋಕ್ (mmHg): 80

BMI: 30

ಗ್ರೇಲ್‌ಎಚ್‌ಎಸ್: 148

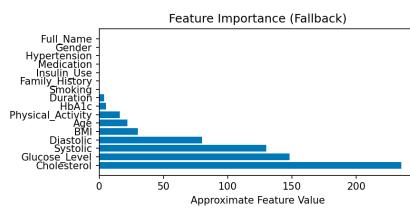
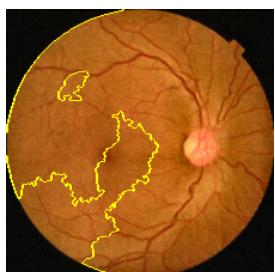
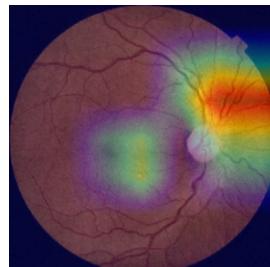
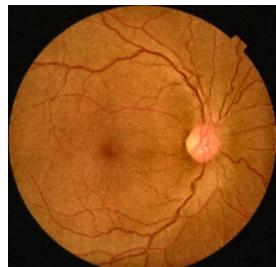
HbA1c: 5.4

ಕೆಣಿಸ್‌ಟ್ರಾಲ್: 235

ಧೂಮಪಾನ: No

ರಕ್ತದೆಹ್ತಿತಡ: No

ಮಧುಮೈಕ ಅವಧಿ: 4



ಸಾರಾಂಶ

- Clinical Report — Ophthalmologist
- Patient: Name: jenifer, Age: 22, BMI: 30
- Predicted stage: NO_DR
- Model confidence: 84.32%

- Risk score: 15.68%
- Findings (automated lesion quantification):
 - Microaneurysms: 22.25%
 - Exudates: 10.81%
 - Hemorrhages: 3.56%
 - Cotton Wool: 0.00%
 - Neovascularization: 30.00%
 - Total Lesion Load: 36.63%
- Clinical interpretation:
 - No DR signs detected. Consider routine annual screening unless clinical suspicion exists.
- 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.

