Research Report

Generated: 2025-11-12 10:49:44

Stage: SEVERE

Metadata Snapshot

Name: solomon

Age: 78

Gender: Male

Systolic (mmHg): 180

Diastolic (mmHg): 110

BMI: 30.8

Glucose: 376

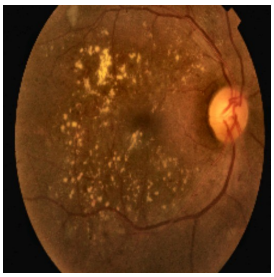
HbA1c: 8.6

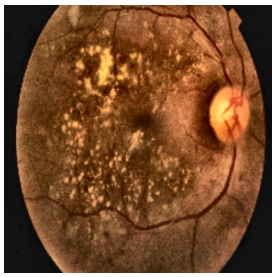
Cholesterol: 235

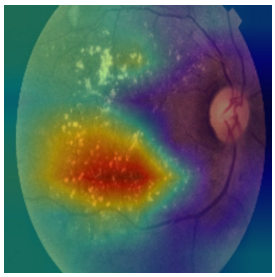
Smoking: Yes

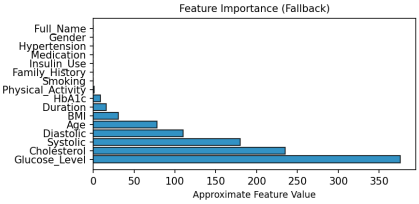
Hypertension: Yes

Diabetes Duration: 16









Summary

- Research Case UID: N/A
- Stage: Severe
- Model Confidence: N/A, AUC: 0.971, Risk Score: 0.0%
- Lesion Summary: exudates 4.3%, hemorrhages 2.5%, cotton wool 0.0%, microaneurysms 17.1%, neovascularization 25.0%, total lesion load 23.9%

Summary

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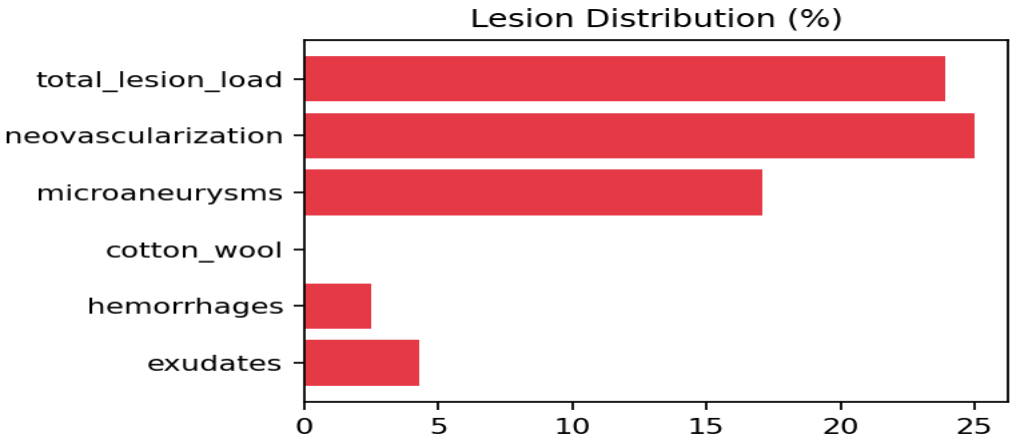
- Remarks: High lesion ratio consistent with NPDR severity threshold.
- Recommended research actions:
- - Validate lesion segmentation accuracy.
- - Compare GradCAM/LIME activation patterns to ground truth masks.
- - Include this case for dataset class balance improvement.



Research Report

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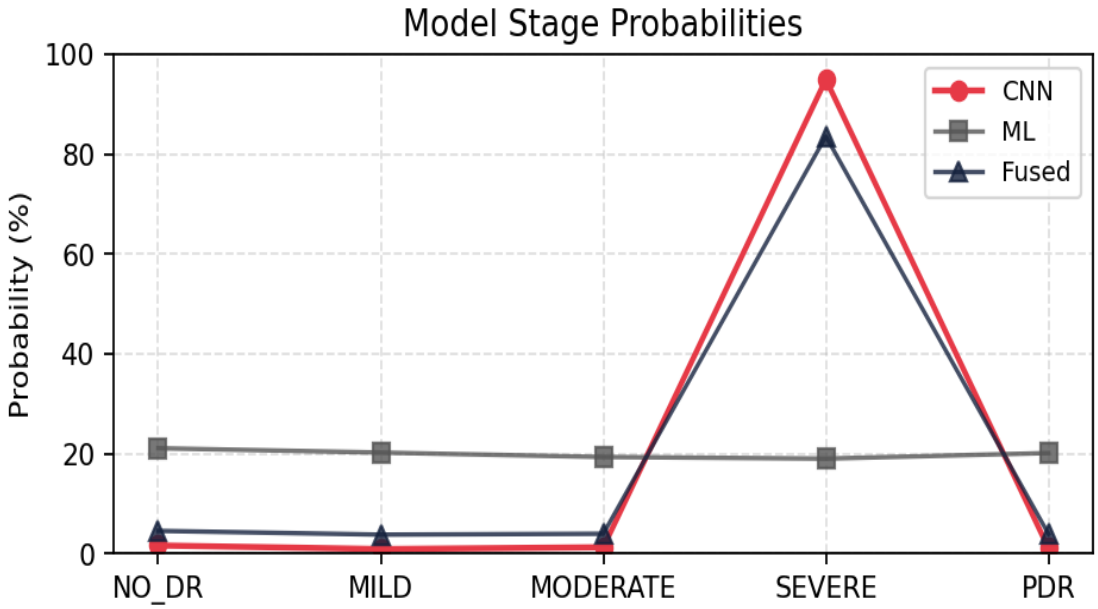

Research Report

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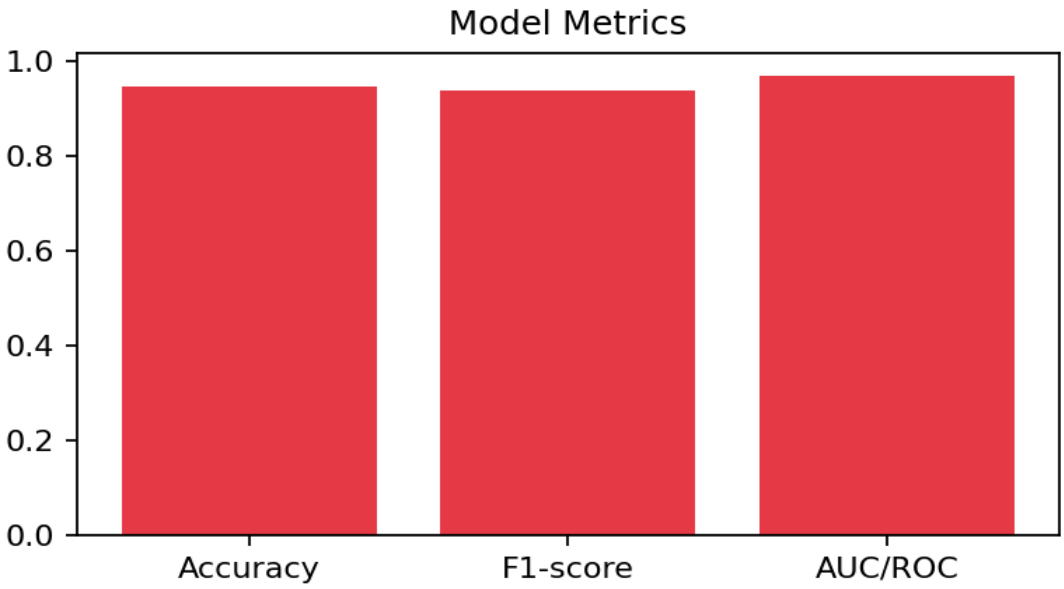
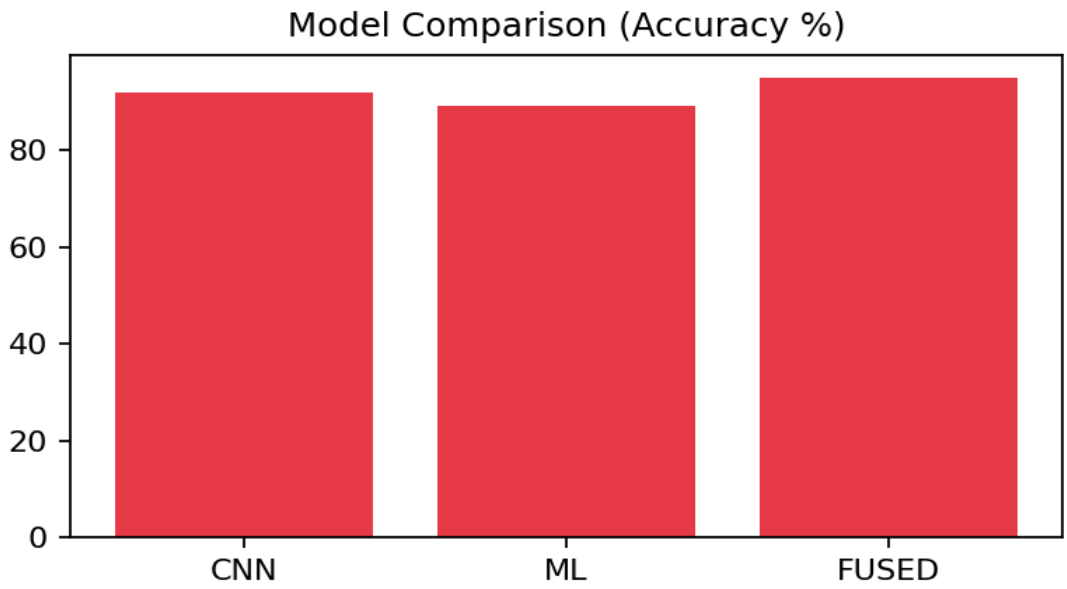


Research Report

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