



Stage: PDR

Metadata Snapshot

███████: sebastain

███████: 89

███████: Female

██████████ (mmHg): 180

██████████ (mmHg): 110

BMI: 30

██████████: 432

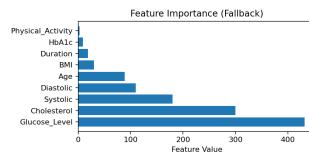
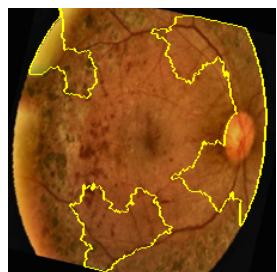
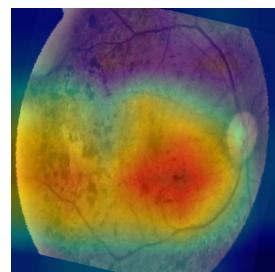
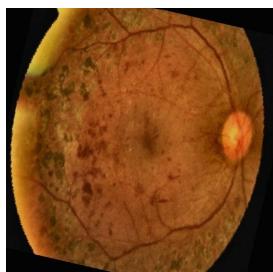
HbA1c: 8.9

██████████: 300

███████: Yes

██████████: Yes

███████: 19



Summary

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

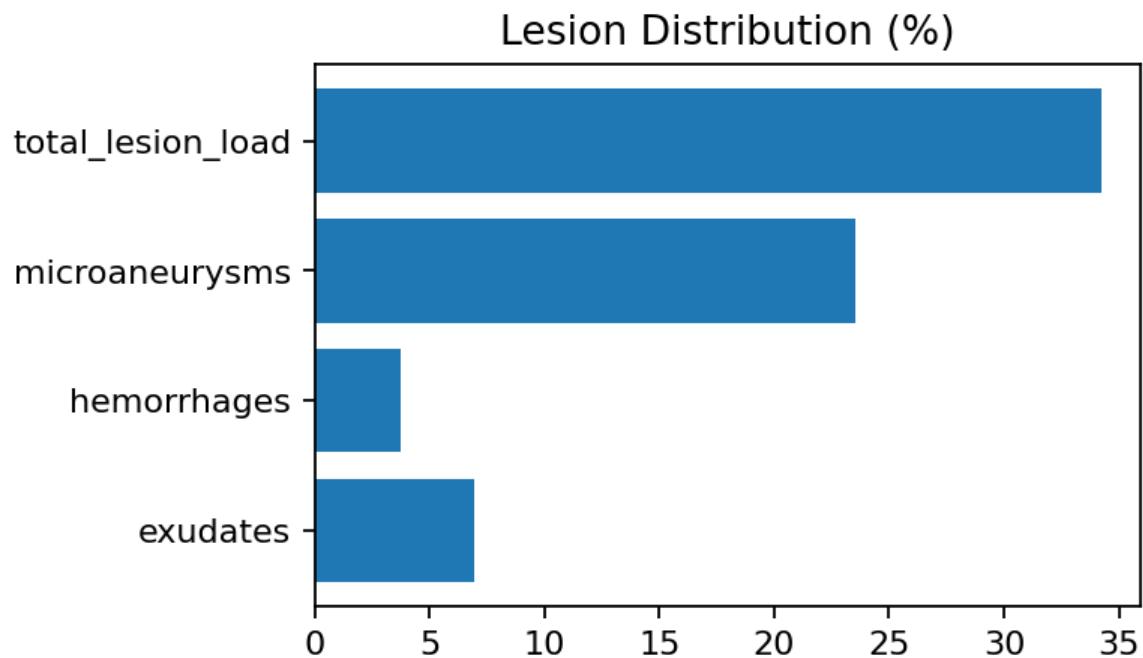
Summary

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- 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

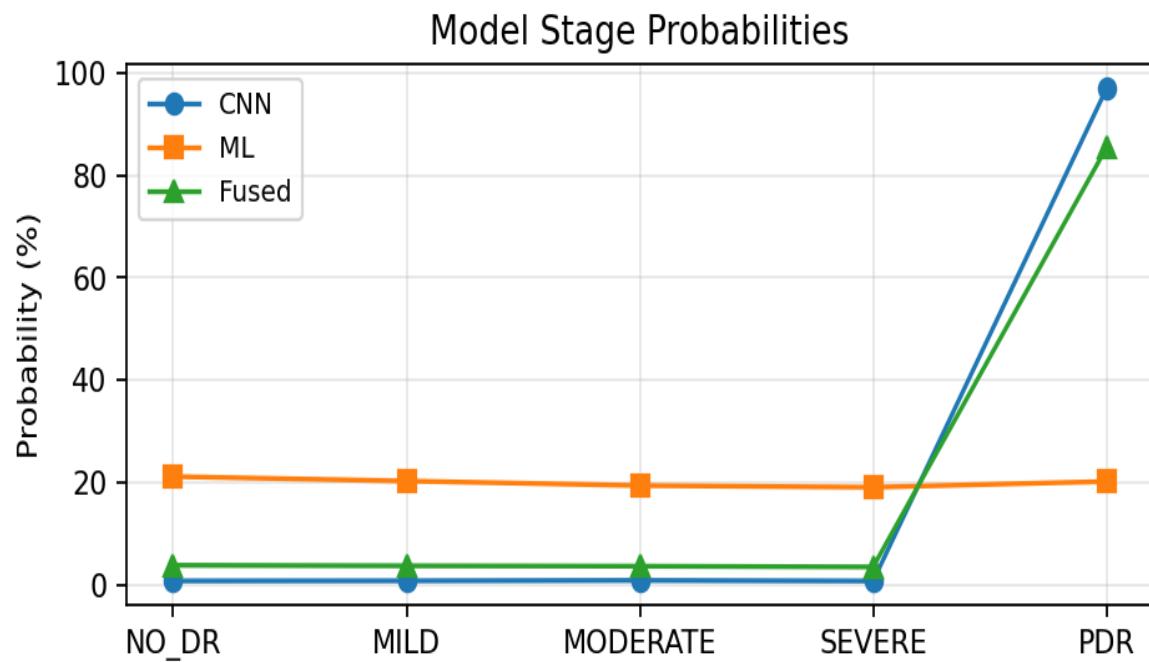


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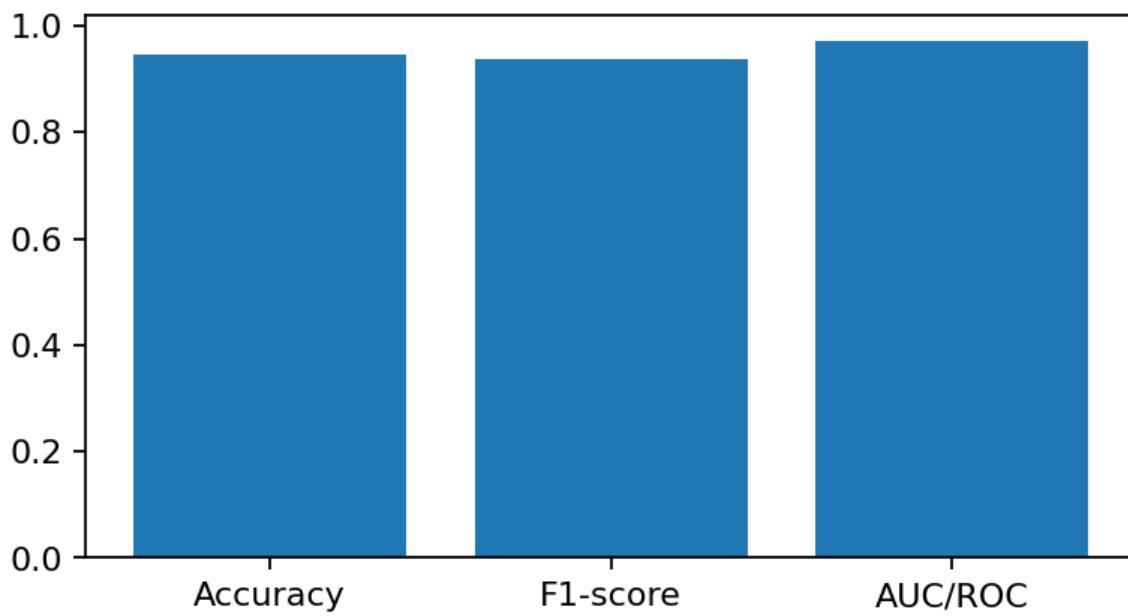
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Model Performance Metrics





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Model Accuracy Comparison (%)

