



## Stage: PDR

### Metadata Snapshot

███████: sebastain

███████: 89

█████: Male

██████████ (mmHg): 180

██████████ (mmHg): 110

BMI: 30

██████████: 432

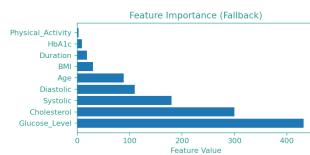
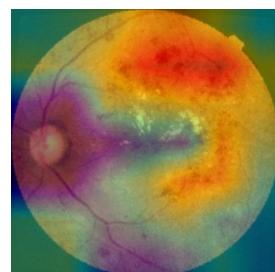
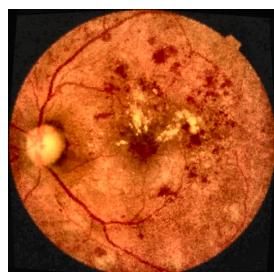
HbA1c: 8.9

██████████: 300

███████: Yes

██████████: Yes

██████ █████: 19



### Summary

- Research Notes
- UID: 52061d9b

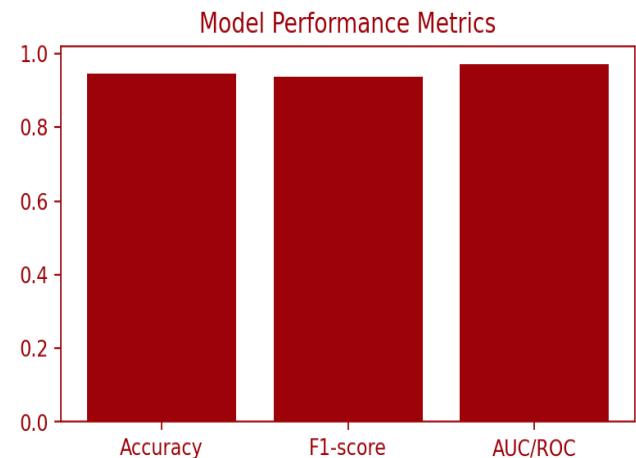
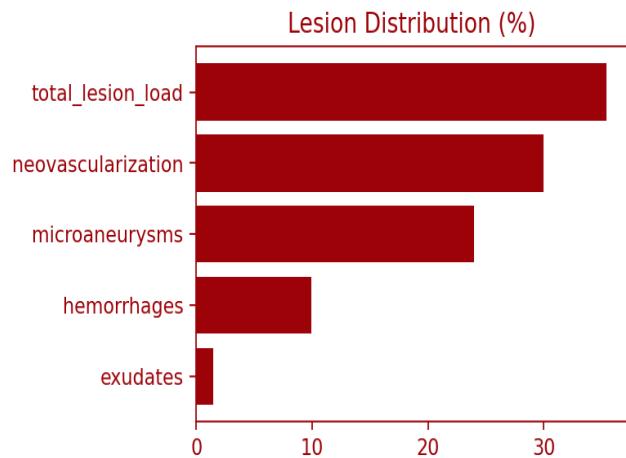
# Summary

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- Predicted Stage: Pdr
- 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: [0.010821065865457058, 0.012188243679702282, 0.017901958897709846, 0.037009499967098236, 0.9220792651176453]
- ML: [0.21136369507961952, 0.20268235745827803, 0.19376393050773666, 0.19047474400645248, 0.20171527294791336]
- Fused: [0.0409024590819239, 0.040762359584823736, 0.044281253377265864, 0.06002928486225855, 0.8140246430937279]
- Inference Device: CPU



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