

Kaggle Notebook Editor AI-Assisted Diabetic Retinopathy +

Upload Retinal Fundus Image



Classification Results

Proliferative DR

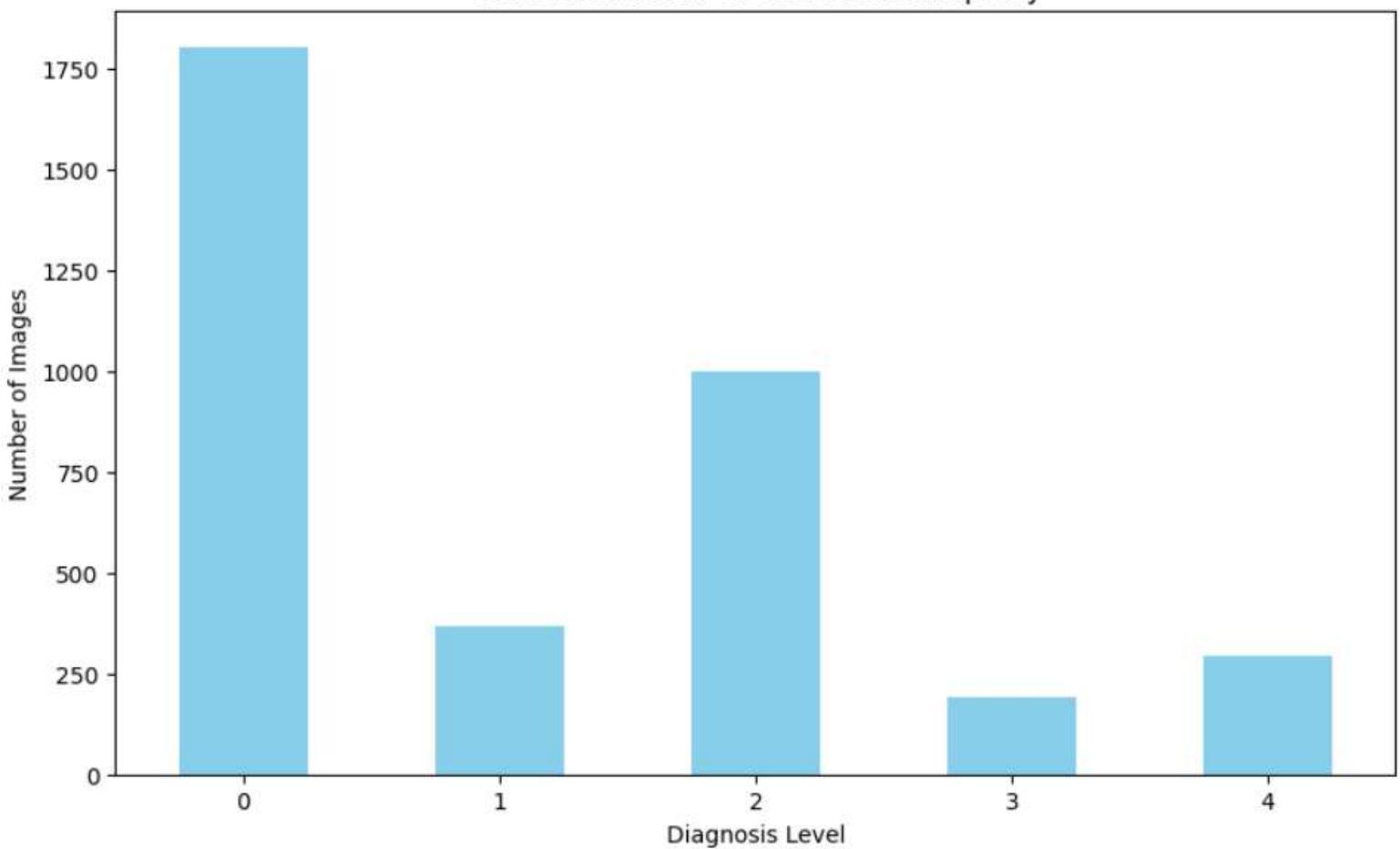
Diabetic Retinopathy Level	Percentage
Proliferative DR	72%
Moderate	21%
Severe	5%
Mild	1%
No DR	0%

Clear Submit

Examples



Class Distribution of Diabetic Retinopathy



 Validation Quadratic Weighted Kappa (QWK): 0.8682

 Classification Report:

	precision	recall	f1-score	support
0	0.96	0.98	0.97	271
1	0.65	0.54	0.59	56
2	0.74	0.91	0.81	150
3	0.75	0.31	0.44	29
4	0.62	0.45	0.53	44
accuracy			0.84	550
macro avg	0.75	0.64	0.67	550
weighted avg	0.83	0.84	0.83	550

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AI-Assisted Diabetic Retinopathy Severity Assessment

Educational Tool for AI-Assisted DR Severity Assessment

Upload a retinal fundus image to see how the AI model classifies the severity of Diabetic Retinopathy.

Understanding the Severity Levels:

- 0 - No DR: No abnormalities detected.
- 1 - Mild: Presence of microaneurysms.
- 2 - Moderate: More than just microaneurysms, but less severe than Severe DR.
- 3 - Severe: Characterized by >20 intraretinal hemorrhages, definite venous beading, or prominent IRMA.
- 4 - Proliferative DR: The most advanced stage, featuring neovascularization or vitreous/preretinal hemorrhage.

*This tool is a demonstration of a deep learning model and is for **educational purposes only**. It is **not a medical device** and should not be used for self-diagnosis or as a substitute for professional medical advice.*

Upload Retinal Fundus Image

Uploading 1 file...
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Classification Results

Clear Submit

Examples

