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| **Reference** | **Objective** | **Methods** | **Used Datasets** | **Obtained Results** |
| 1 IEEE Xplore | Classification of Diabetic Retinopathy | CNN and GNN | Kaggle(3464images) andEyePACSdataset (35,000 images) | Kaggle dataset: Accuracy = 0.896; Kappa = 0.92; EyePACSdataset: Accuracy = 90.34%; Sensitivity = 97.54% Specificity = 89.56% |
| 2 IEEE | Lesion based DR detection using hybrid deep learning model | Hybrid CNN (ResNet-16 + GoogleNet) with APSO + ML Classifiers (SVM, RF, DT, NB) | Kaggle EyePACS dataset | Radial SVM: Accuracy = 94%, Precision = 97%, Recall = 0.89, F1-score = 0.96  best overall performance. |
| 3 but not download reference in endnote | A Comprehensive Survey and Comparison of Methods | ResNet-50 + SVM | APTOS/EyePAC | Hybrid learning gives the highest accuracy in DR classification upto 99% |
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[**Randomization-Driven Hybrid Deep Learning for Diabetic Retinopathy Detection**](https://ieeexplore.ieee.org/document/10906576/)

[**Deep Learning in Automatic Diabetic Retinopathy Detection and Grading Systems: A Comprehensive Survey and Comparison of Methods**](https://ieeexplore.ieee.org/document/10559800/) **(read add to endnote)**

[**Detection of Diabetic Retinopathy Using a Multi-Decision Inception-ResNet-Blended Hybrid Model**](https://ieeexplore.ieee.org/document/10820183/)

[**EffNet-SVM: A Hybrid Model for Diabetic Retinopathy Classification Using Retinal Fundus Images**](https://ieeexplore.ieee.org/document/10981718/)

[**Diabetic Retinopathy Classification Using Hybrid Color-Based CLAHE and Blood Vessel in Deep Convolution Neural Network**](https://ieeexplore.ieee.org/document/10804768/)

[**LSD-HybridViT: A Hybrid Vision Transformer With Lightweight Mixed-Domain Attention and Frequency Multi-Scale Dilated Convolution Feature Fusion for Diabetic Retinopathy Grading**](https://ieeexplore.ieee.org/document/11168228/)

[**Uncertainty Analysis of Deep Kernel Learning Methods on Diabetic Retinopathy Grading**](https://ieeexplore.ieee.org/document/10360816/)

[**A Hybrid Convolutional Neural Network Model for Automatic Diabetic Retinopathy Classification From Fundus Images**](https://ieeexplore.ieee.org/document/10142165/)

[**An OGFA+CNN Approach for Multi-Level Disease Identification in Fundus Images**](https://ieeexplore.ieee.org/document/11021568/)

[**A Novel Transformer-CNN Hybrid Deep Learning Architecture for Robust Broad-Coverage Diagnosis of Eye Diseases on Color Fundus Images**](https://ieeexplore.ieee.org/document/11151288/)