

## **DEEP LEARNING FOR DIABETIC RETINOPATHY DETECTION USING CFZ ALGORITHM**

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This project is meant for the detection of the severity of diabetic retinopathy along with the suggestions for possible treatments. Algorithms are implemented for significant improvement in identification of irregular diabetic retinopathy lesions. For precise detection of the affected area, an active region of coverage curve is obtained. Feature extraction process is achieved using grey level coherence matrix and discrete wavelet transform. The final prediction to estimate the presence of diabetic retinopathy is done using random forest, a pre-trained classification algorithm. An accuracy of 98.2% is attained.