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Convolution Neural Network Based Approach for Diabetic Retinopathy Detection using Fundus Images

Diabetic Retinopathy (DR) is the most common diabetic condition that affects the retina and is the primary cause of blindness worldwide. Patients' eyesight preservation depends critically on timely discovery, although early diagnosis is still difficult and mostly depends on the interpretation of fundus pictures by clinical professionals. A proprietary dataset was used in this study's training and validation of a deep learning model. Test picture quality was evaluated by the intelligent model, which classified the photos into DR-Positive and DR-Negative groups and further classified the images into mild, moderate, severe, and normal severity stages. The model's performance will next be closely examined by an expert assessment, taking into account the acquired outcomes.

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Track Classification: Health and Well-being