

Application of deep learning model for diabetic retinopathy classification

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Abstract: In the context of increasingly advanced healthcare yet still facing many challenges in diagnosing and monitoring retinal diseases, this study focuses on applying deep learning models to classify diabetic retinopathy. The objective is to build an accurate prediction system to assist doctors in making effective treatment decisions. The research methodology includes both machine learning theory and empirical implementation of the model on large datasets. The study is expected to contribute to improving diagnostic techniques and may expand applications to other medical fields.

Keywords: Deep learning, Retinopathy classification, Diabetes, Big data, Forecasting system