DEEP LEARNING MODEL FOR DIABETIC RETINOPATHY DETECTION

TEAM NUMBER

07

TEAM

DEPARTMENT: Computer Science & Engineering

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ABSTRACT

In the Present era, every one is prone to get affected by diseases. The most frequently happening is loss of sight among people who were diabetic. Diagnosing diabetic retinopathy manually with the assistance of an ophthalmologist has been a time-consuming and labor-intensive technique. The existing Machine learning models are not efficient when it comes to real time usage. The proposed model not only detects diabetic retinopathy but also analyses distinct severe phases, which is accomplished using Deep Learning (DL) and transfer learning methods.This approach enhances the model's ability to accurately classify and diagnose diabetic retinopathy by learning relevant hierarchical features from a diverse set of retinal images Images are being trained to automatically recognise which stage of DR has progressed.

DOMAINS WHERE OUR SOLUTION CAN BE IMPLEMENTED

Health care & Medicine

SOLUTION

Creating an interface that efficiently takes input type of image and classifies to respective category of severity with manageable level of accuracy. Here DL model serves as backend.

PROJECT GUIDE

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TEAM VISION

Our vision is to provide a robust model to reduce the rate of people suffering from diabetic retinopathy and also as a helping aid for the doctors.