**TITLE OF THE PROJECT:** Diabetic Retinopathy-Optical loss detection using OCT image through Deep Learning

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**ABSTRACT**

Diabetes is a disease that occurs when there is an excess level of glucose content in body that may cause damage to retina which leads to permanent loss of vision in stages .Diabetes affecting the eyes is known as Diabetes retinopathy ,which become global medical issue among elderly people .Diabetes retinopathy is a mellitus disease that affects blood vessels in retina .This requires an immediate treatment to keep remaining vision from damage .Here comes the need for automatic system to detect possibility of people getting affected with diabetic retinopathy at initial stage.

To classify normal and abnormal retinal images into four stages of DR with help of classification algorithms and to apply Deep learning(DL) model to the field of medical diagnosis in order to lessen the time and stress undergone by the opthalmologist and other members of team in screening ,diagnosis and treatment of diabetic retinopathy .The optical coherence tomography(OCT) images of diabetic retinopathy dataset is used for training, validation and evaluation using deep learning technique.