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| S.NO | TITLE AND AUTHOR | YEAR OF PUBLICATIONS | METHODOLOGY | ADVANTAGE | DRAWBACK |
| 1.  2.  3.  4.  5.  6.  7. | Diabetic Retinopathy Detection using prognosis of Microaneurysm and Early Diagnosis System for Non-proliferative Diabetic Retinopathy Based on deep learning Algorithms  LIFENG QIAO,YING ZHU,HUI ZHOU  Conditional Generative Adversarial Network for Fine Grained Lesion Synthesis on Diabetic Retinopathy Images  YI ZHOU,LING SHAO,BOYANG WANG  Knowledge and Practice on Prevention of Complications of Diabetes Mellitus among Patients with Diabetes in a Tertiary Hospital.  Author:Om K Acharya  Artificial intelligence in diabetic retinopathy: A natural step to the future.  Author: Srikanta Kumar Padhy., Brijesh Takkar, and Atul Kumar.  Detection and Classification of Diabetic Retinopathy using Retinal Images  Author:Kanika Verma , Prakas Deep, AG ramakrishnan  Diabetic Retinopathy Detection Using VGG-NIN a deep learning Architecture.  Author:Zubair Khan, Fiaz Gul Khan, Ahmad Khan.  Automatic Diagnosis of Diabetic Retinopathy using Fundus Images.  Author:Iqbal M.l ,Albinu, Gaubbal N.S , Khan.A | MAY 11,2020  December 17,2022  MAY 29  2019  DEC  2018  DEC  2011  2021  OCTOBER  2006 | i)Enhancement for dark Lesions on the Edge of Curvelet.  ii)Optimizing Bright Lesions Using Optimal Bandpass Filter.  To synthesize high resolution fundus images which can be manipulated with arbitrary grading and lesion information.  Data was an analysedbbyb using the descriptive and inferential statistics with the hjelp of Statistical Package of Social Science(SPSS) Version 16.  AI assisted medical screenoing and diagnosis based on images are currently currently evolving  65 retinal images of normal, moderate NPDR, and severe NPDR cases used in this work in this work were downloaded from STARE(Structural Analysis of the Retina).  The proposed model is formed by stacking the VGG network, SPP layer, and NIN model.  There has been an increase in the use of digital image processing techniques for the screening of DR. | It is Capable of effectively creating DCNNS for the segmantion of Fundus images.  Pay attention to vision loss.  There was a statistically significant (p+0.D01) and averages positive relationship(r+0.605) was found between knowledge And Practice.  ROP is a leading cause of treatable childhood blindness when diagonosed timely.  Here the Retinal images preprocessed using adaptive, local, and contrast enhancement.They adopted a neural network based classification.  The proposed model utilizes lower computational resource that provided similar results.  Thje achievement of this research work include the detection of red spots and bleeding in the work | A scarce Principal Componebt Analysis is employed to find the latent structure of microaneurysm .  Blurred vision,spots or dark string floating in your vision.  To be launched periodically to increase knowledge and sufficient.  practice on prevention of Diabetic complications.  Novel development in the sector of artificial intelligence are opening up new promises for running detection.  Hemorrhages and microneurysms were detected to diagonosis diabetes.  The major drawback of the ensemble model is the number of learnable parameters.  It is very difficult for visual manual grading by the ophthalmologists.  In detection for abnormalities is centered on detecting red spot disease and bleeding. |