Date	26 October 2022
Team ID	PNT2022TMID42855
Project Name	Project – Deep Learning Fundus Image Analysis for Analysis for Early Detection of Diabetic Retinopathy

Define your problem statement

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5 minutes

PROBLEM

Diabetic retinopathy is the most common microvascular complication in diabetes. The evaluation is currently performed by medical experts based on the fundus or retinal images of the patient's eyes. As the number of patients with diabetes is rapidly increasing, the number of retinal images produced by the screening programmes will also increase, which in turn introduces a large labor-intensive burden on the medical experts as well as cost to the healthcare services.

2 Brainstorm

10 minutes

Team Lead Godson

- Close examination of diabetic patients
- Analyzing pattern of symptoms among the patients
- Create a detailed report for the patient
- Getting the medical detail of the patient

Team member Dilshad Nirmal

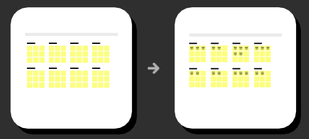
- Examine the images for linearity
- working with images from any format
- Recommending for regular health checkup
- Suggest the optimal blood sugar level

Team member Kannan

- Analysis of the fundus images
- Eye checkups at regular intervals
- Use Machine learning algorithms for detection
- Showing the results at the time of prediction

Team member Riyaz Khan

- Conscious about food habits
- Keep diabetics and BP under control
- Avoid high carbs food
- Python model to train the datasets



3 Group ideas

20 minutes

Need to be done by the patient

- conscious about the food habits
- close examination of diabetic patients
- Keep diabetics and BP control.
- Recommending for regular doctor checkup.
- Doing eye exercise.

Technical development

- **Create the login page with Bio metric foruser**
- **Showing the various Retinaimages for user reference.**
- **Asking their Medical Details to examine**
- Use machine learning algorithms for detection.

Final product and language

- python language to train the datasets.
- Analysis the fundus image for Conclusion.
- Showing result at the time of prediction.

4 Prioritize

20 minutes