PROJECT FLOW

Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy

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# PROJECT FLOW:

* The user interacts with the UI (User Interface) to choose the image.
* The chosen image analyzed by the model which is integrated with flask application.
* The Xception Model analyzes the image, then the prediction is showcased on the Flask UI.

# To accomplish this, the below activities and task as to be completed:

* Data Collection.
  + Create a Train and Test path.
* Data Pre-processing.
* Import the required library
* Configure ImageDataGenerator class
* Apply ImageDataGenerator functionality to Trainset and Testset
* Model Building
  + Pre-trained CNN model as a Feature Extractor
  + Adding Dense Layer
  + Configure the Learning Process
  + Train the model
  + Save the Model
  + Test the model
* Train the model on IBM
* Cloudant DB
  + Register & Login to IBM Cloud
  + Create Service Instance
  + Creating Service Credentials
  + Launch Cloudant DB
  + Create Database
* Application Building
  + Create an HTML file
  + Build Python Code