

Project Design Phase-I

Solution Architecture

Date	5 October 2022
Team ID	PNT2022TMID03873
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy
Maximum Marks	4 Marks

Solution Architecture:

A complicated process with numerous sub-processes, solution architecture connects business issues with technological solutions. Its objectives are :

- Track down the most effective technological remedy for current business issues.
- Explain to project stakeholders the structure, traits, behaviour, and other features of the software.
- Specify the features, stages of development, and requirements for the solution.
- Offer guidelines for how the solution is created, handled,.

Technologies needed for Minimum Viable Product deployment

The software technologies needed for the project's systematic development and implementation include:

- HTML/CSS/JavaScript/bootstrap-Front End Development
- Python
- TensorFlow
- Image processing Basics
- Flask-Backend Development
- Git & GitHub-project Management
- IBM Cloud-Hosting
- IBM Watson-Training the Deep Learning Model

SOLUTION- ARCHITECTURE DIAGRAM:

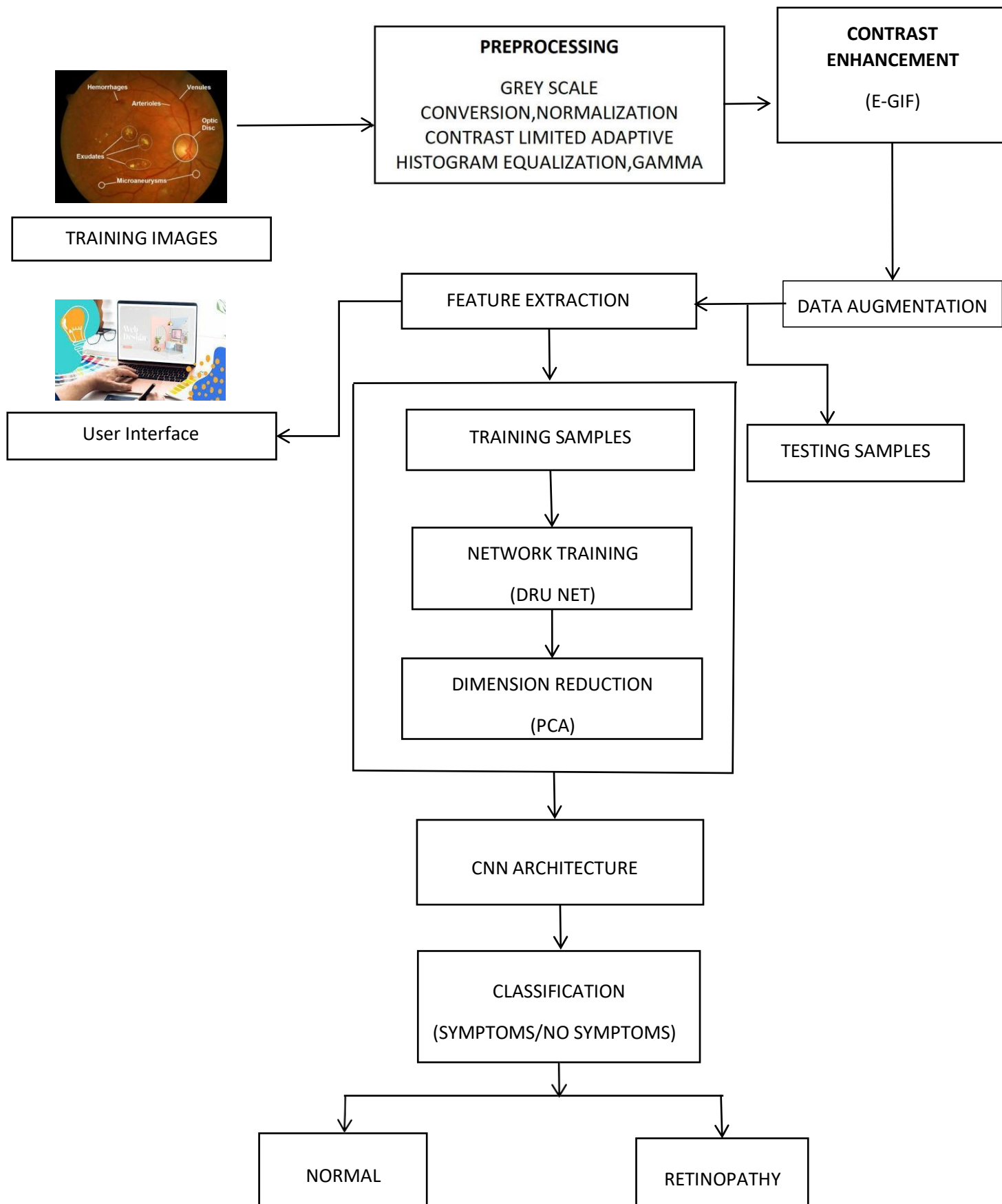


Figure 1: Architecture and data flow of the voice patient diary sample application

Reference: <https://aws.amazon.com/blogs/industries/voice-applications-in-clinical-research-powered-by-ai-on-aws-part-1-architecture-and-design-considerations/>