

Project Design Phase-I

Solution Architecture

Date 12 September 2023
Team ID 592871
Project Name Garbage Classification Using Deep Learning
Maximum Marks 4 Marks

Solution Architecture:

The solution architecture employs deep learning methods for classifying eye diseases, focusing on Normal, Cataract, Diabetic Retinopathy, and Glaucoma, attributed to factors like age and diabetes. Leveraging Transfer Learning, specifically utilizing Inception V3, VGG19, and Xception V3, enhances the model's performance in image analysis. The architecture includes data preprocessing, model training, and an interpretability module. A scalable cloud infrastructure hosts the application, ensuring accessibility and efficient integration into healthcare systems. The solution, driven by artificial intelligence, aims to provide accurate and early detection of eye diseases, contributing to improved patient outcomes through advanced image classification techniques.

Our solution leverages Convolutional Neural Networks (CNNs) to address the eye disease prediction problem effectively.

- Data Preprocessing
- Data Gathering
- Image Preprocessing
- Deep Learning Model
- Eye Disease Prediction
- Continuous Monitoring and Updates

Solution Architecture Diagram

