



Ahmedabad
University

CSE541 Computer Vision

Weekly Project Report

Date: 26-02-2023

Project title: Real-time medical image disease detection using deep learning methods.

Group 8

| Name | Enrolment no. |
|---------------|----------------------|
| Meet Patel | AU2040010 |
| Dev Patel | AU2040056 |
| Manthan Patel | AU2040123 |
| Sagar Bajaj | AU2040252 |

1. Task performed this week

- We did more research on the dataset and gastrointestinal diseases and finalized the number of classes.
- We decided the tentative approach to our project, which we will follow.

2. Outcomes of task performed

- We decided to keep three classes each of anatomical landmarks and pathological findings.
- The classes are as follows:
 - Anatomical landmarks:
 1. Z-line
 2. Pylorus
 3. Cecum
 - Pathological findings:
 1. Esophagitis
 2. Polyps
 3. Ulcerative-colitis
- Tentative approach for our project:
 1. Image Resizing
 2. Image Pre-processing
 3. Image Augmentation
 4. Split the dataset into train and test sets
 5. Fine tuning and initial implementation of the pre-trained model
 6. Improving the model
 7. Final implementation and analysis of the outputs

3. Tasks to be performed in the upcoming week

- We will perform image resizing and image pre-processing.
- We will research more about the ResNet architecture and transfer learning.