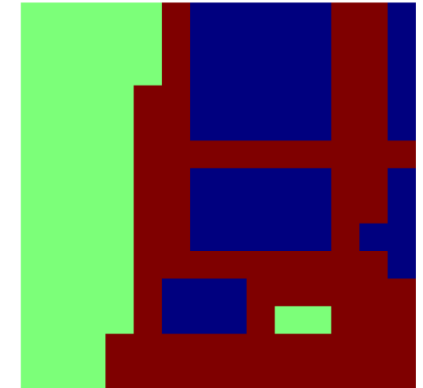**Name: Abhishek Goyal**

Entry number: 2023AIB2073

Approach

1. Processed some images with median filter of size 3 (like Ass1).
2. Image is resized for pretrained DINO model. (From 512 to 224).
3. Passed through DINO (ViT-B 16).
4. 196 patches are clustered using KMeans.
5. Tested on K=3 and 7.
   (3 for building, road, land).
   (7 for blue building, grey building roof, road, land, trees, solar panels, water body).

Results

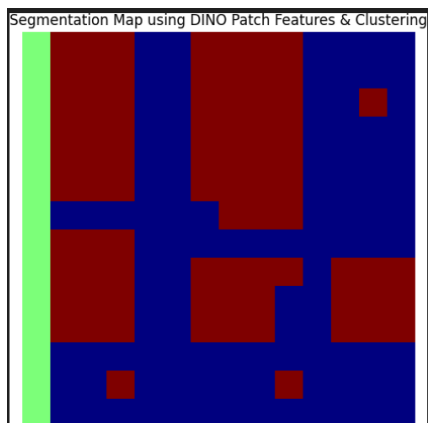**K=3**

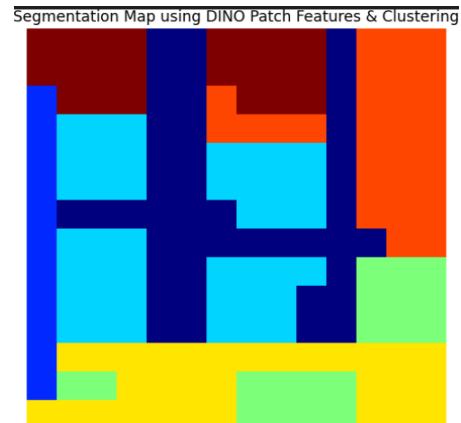**k=7**

Segmentation Map using DINO Patch Features & Clustering	Segmentation Map using DINO Patch Features & Clustering
K=3	**K=7**

Limitation

1. Segmentation is not sharp because clustering is done on patches not pixel.