

Practical Image Processing Assignment

Intel Image Classification

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In [ ]: !pip -q install split-folders
import zipfile
zip_path='/content/archive (1).zip'
extract_path='/content/intel_dataset'
with zipfile.ZipFile(zip_path,'r') as z:
    z.extractall(extract_path)
print('Done')
```

```
In [ ]: import splitfolders
splitfolders.ratio('/content/intel_dataset/seg_train/seg_train',
output='/content/splitted_dataset',
seed=42,ratio=(0.7,0.1,0.2))
```

```
In [ ]: from torchvision import datasets, transforms
from torch.utils.data import DataLoader
train_tf=transforms.Compose([
transforms.RandomHorizontalFlip(),
transforms.RandomRotation(10),
transforms.Resize((224,224)),
transforms.ToTensor()])
test_tf=transforms.Compose([
transforms.Resize((224,224)),
transforms.ToTensor()])
train_ds=datasets.ImageFolder('/content/splitted_dataset/train',transform=train_tf)
val_ds=datasets.ImageFolder('/content/splitted_dataset/val',transform=test_tf)
test_ds=datasets.ImageFolder('/content/splitted_dataset/test',transform=test_tf)
```

Continue with EfficientNet-B 0 training and evaluation using the same code from your lectures.