app_run

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```python
# To run on Google Colaboratory
%cd
%cd ..
%cd content
%ls
# User must see sample_data/ folder
```

```python
import os.path
```

```python
project_exists = False
if os.path.exists("modelsWithLASSO"):
  print("project directory is already exist, pulling last changes")
  %cd modelsWithLASSO
  ! git fetch --all
  ! git reset --hard origin/method-in-paper
  ! git pull origin method-in-paper
else:
  print("project directory is NOT exist, checkouting the project")
  ! git clone https://github.com/ozanguldali/modelsWithLASSO.git
  %cd modelsWithLASSO
  ! git pull origin method-in-paper
```

```python
%ls
# User must see project inner folder and files
```

```python
import os.path
```

```python
! pip install log4p
```

```python
import run_CNN
from importlib import reload
run_CNN = reload(run_CNN)
```

```python
run_CNN.main(save=True, model_name="resnet50", optimizer_name="Adam",
    is_pre_trained=True, batch_size=16, lr=0.00001, num_epochs=50,
    validation_freq=1/50, augmented=True, num_workers=2)
```

```python
# To run CNN process
run_CNN.main(test_without_train=True, model_name="resnet50",
 is_pre_trained=True, pretrain_file="92.16_resnet50_Adam_out")
```

```python
import app
from importlib import reload
app = reload(app)
```

```python
# To run deep feature transfer from saved CNN model weights to ML algorithms
app.main(transfer_learning=True, ml_model_name="all", ml_features="all",
 cnn_model_name="resnet50", is_pre_trained=True, cv=10,
 dataset_folder="dataset", pretrain_file="92.16_resnet50_Adam_out", seed=4)
```