

How to launch experiments

1 Files overview.

- Folder "DL" – Deep learning experiments on ResNet18;
- Folder "Logistic regression" – source code for logistic regression problem;
- Folder "Least squares (PL setting)" – source code for PL setting (least squares problem); All files in the folder "Least squares (PL setting)" has the similar name structure as in the folder "Logistic regression".

2 Experiments with logistic regression /least squares problem

2.1 Preprocessing

Before running experiments one need to prepare data for that via script "generate_data.py". For example, the command

```
python3 generate_data.py --dataset w8a --num_workers 20 --loss_func log-reg
```

would create a partitioning of `w8a` dataset to 20 workers.

2.2 Running experiments

An example of the command to run an experiment:

```
python3 ef21_fg --k 1 --dataset mushrooms --max_it 10000  
--tol 1e-7 --factor 8 --num_workers 20
```

where *factor* stand for the multiplier of the theoretical stepsize.