



**SPRACE**

# **Weekly updates**

**(29/04/2021)**

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SPRACE-ML (track-ml)

# Topics:

- ExatrakX deploy updates
- Status

# ExatrX deploy updates

- Pytorch [Lightning](#)
  - Modifying the *lightning\_checkpoints* structure
  - 26 files/50 paths changed
  - Activate debugging
- Python [wandb](#):
  - Toolkit to develop models faster with experiment tracking, dataset versioning, and model management
  - Set news paths to outputs
- Runtime with 20 epochs with kaggle examples datasets: 20h (Using GPU and multi-core (10% each))
  - 5-fold cross validation

# ExatrkX deploy updates

Output:

DATALOADER:0 TEST RESULTS

```
{'loss': 0.9920466542243958,  
'preds': array([[ 0,  0,  0, ..., 13079, 13079, 13079],  
                [ 52,  68,  75, ..., 13018, 13028, 13062]]),  
'truth': array([False, False, False, ..., False, False, False]),  
'truth_graph': array([[ 499,  542, 1491, ..., 6890, 11630, 12210],  
                      [ 1491, 1491, 2398, ..., 4888, 6890, 11630]])}
```

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# Status:

- To do:
  - Output analysis from ExatrkX
- Working:
  - graphSAGE
- Waiting:
  - pytorch Lightning study
- Done:
  - ExatrkX deploy (following the Quickstart tutorial)