

Installation



- ❑ Language requirement:
 - python 2.7
 - numpy>=1.10.0
 - matplotlib>=1.5.0
 - pandas>=0.17.0
 - scikit-learn>=0.17 (different syntaxes for v0.17 and v0.18)
- ❑ Model is that participants develop on their own machine, then upload their code to the RAMP platform where it is evaluated
- ❑ →you need to be able to run with numpy, sci-kit learn, matplotlib lib etc...
- ❑ →we recommend to install Anaconda on your laptop
<https://www.continuum.io/downloads> (with python 2.7)
 - then run app Navigator...navigated to notebook .ipynb
- ❑ Otherwise, you can use the SFT ML installation on any CVMFS cluster (e.g. lxplus)
source /cvmfs/sft.cern.ch/lcg/views/LCG_85swan3/x86_64-slc6-gcc49-opt/setup.(c)sh
- ❑ Quick test:
Python
>>> import matplotlib.pyplot as plt
>>> from sklearn import linear_model
>>> import numpy as np

Scikit-learn 17 vs 18



- Update to scikit-learn 0.18 : in terminal, conda update scikit-learn (takes a while), then test:

```
python
```

```
>>> import sklearn
```

```
>>> print sklearn.__version__
```

```
0.18.1
```

- OR

- user_test_submission.py requires sklearn 0.18 (0.17 complains about ShuffleSplit)

- following changes user_test_submission.py

- at the beginning

```
#skl 0.18
```

```
#from sklearn.model_selection import ShuffleSplit
```

```
#=> replace with skl 0.17
```

```
from sklearn.cross_validation import ShuffleSplit
```

- and later in def get_cv :

```
#v0.18
```

```
# event_cv = ShuffleSplit(
```

```
    n_splits=1, test_size=0.5, random_state=57)
```

```
# for train_event_is, test_event_is in event_cv.split(unique_event_ids):
```

```
#=>replace with v0.17
```

```
nsamples=unique_event_ids.shape[0]
```

```
event_cv = ShuffleSplit(nsamples,1, test_size=0.5, random_state=57)
```

```
for train_event_is, test_event_is in event_cv:
```

- and things run fine

```
$ python user_test_submission.py
```

```
Reading file ...
```

```
Training ...
```

```
Testing ...
```

```
score = 0.846205321725
```