

Customer Solutions

Competitions

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Samantha Hewamanage

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Higgs Boson Machine Learning Challenge

2 months to go

Monday, May 12, 2014

\$13.000 • 713 teams

Monday, September 15, 2014

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Derived features 7 days ago Competition Details » Get the Data » Make a submission

Data Files

File Name	Available Formats
random_submission	.zip (2.58 mb)
training	.zip (16.89 mb)
test	.zip (34.79 mb)
HiggsBosonCompetition_AMSMetric_rev1	.py (3.15 kb)

File descriptions

- training.csv Training set of 250000 events, with an ID column, 30 feature columns, a weight column and a label column.
- **test.csv** Test set of 550000 events with an ID column and 30 feature columns.
- **random_submission** Sample submission file in the correct format. File format is described on the Evaluation page.
- HiggsBosonCompetition_AMSMetric Python script to calculate the competition evaluation metric.

For detailed information on the semantics of the features, labels, and weights, see the technical documentation from the LAL website on the task.

Some details to get started:

- all variables are floating point, except **PRI_jet_num** which is integer
- variables prefixed with PRI (for PRImitives) are "raw" quantities about the bunch collision as measured by the detector.
- variables prefixed with **DER** (for DERived) are quantities computed from the primitive features, which were selected by the physicists of ATLAS
- it can happen that for some entries some variables are meaningless or

cannot be computed; in this case, their value is -999.0, which is outside the normal range of all variables

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