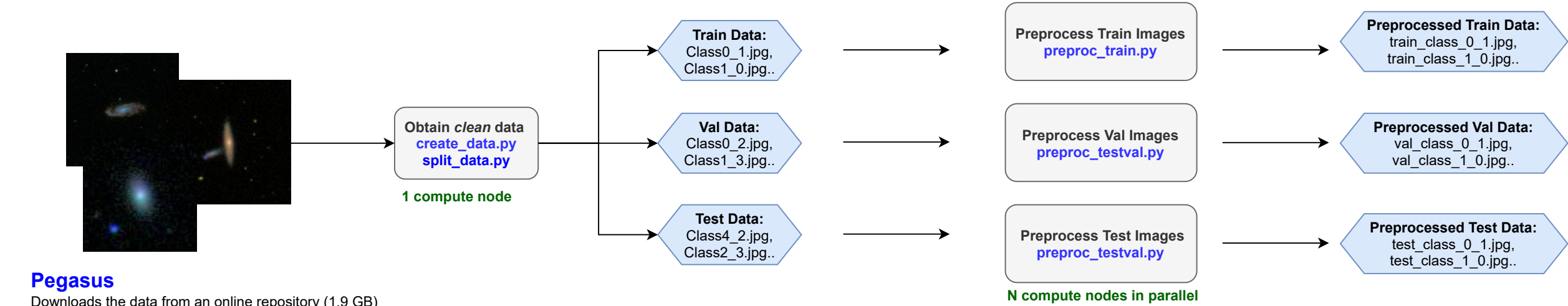


Data Acquisition	Clean Data	Data Preprocessing
Data is downloaded and unzipped in cwd	Reduce to 28790 images. 8434, 8069,578, 3903, 7806	Separate jobs for train data, and test/val data
Pegasus		

Download **galaxy-zoo-the-galaxy-challenge.zip**
File size: 1.9 GB

The images are assigned to classes based on their properties. Subset of the images is used as a dataset going forward. Total 28,793 images each between 8 kB to 16 kB. **Total: 386.0 MB**



Pegasus

Downloads the data from an online repository (1.9 GB)

The data preprocessing jobs can be parallized based on number of available nodes. **Total Input: 386.0 MB**

Pegasus

launches multiple data preprocessing jobs in parallel.

Hyperparameter Optimization	Train Model	Test Model
Tune model to find the best setting (Optimizer, Activation)	Use the best optimization parameters to train model	7 classification metrics accuracy, precision, recall, F1, confusion matrix, ROC, AUC
Decaf		

Pegasus

Launches one big HPO job inside which Decaf runs communication between nodes (?)

