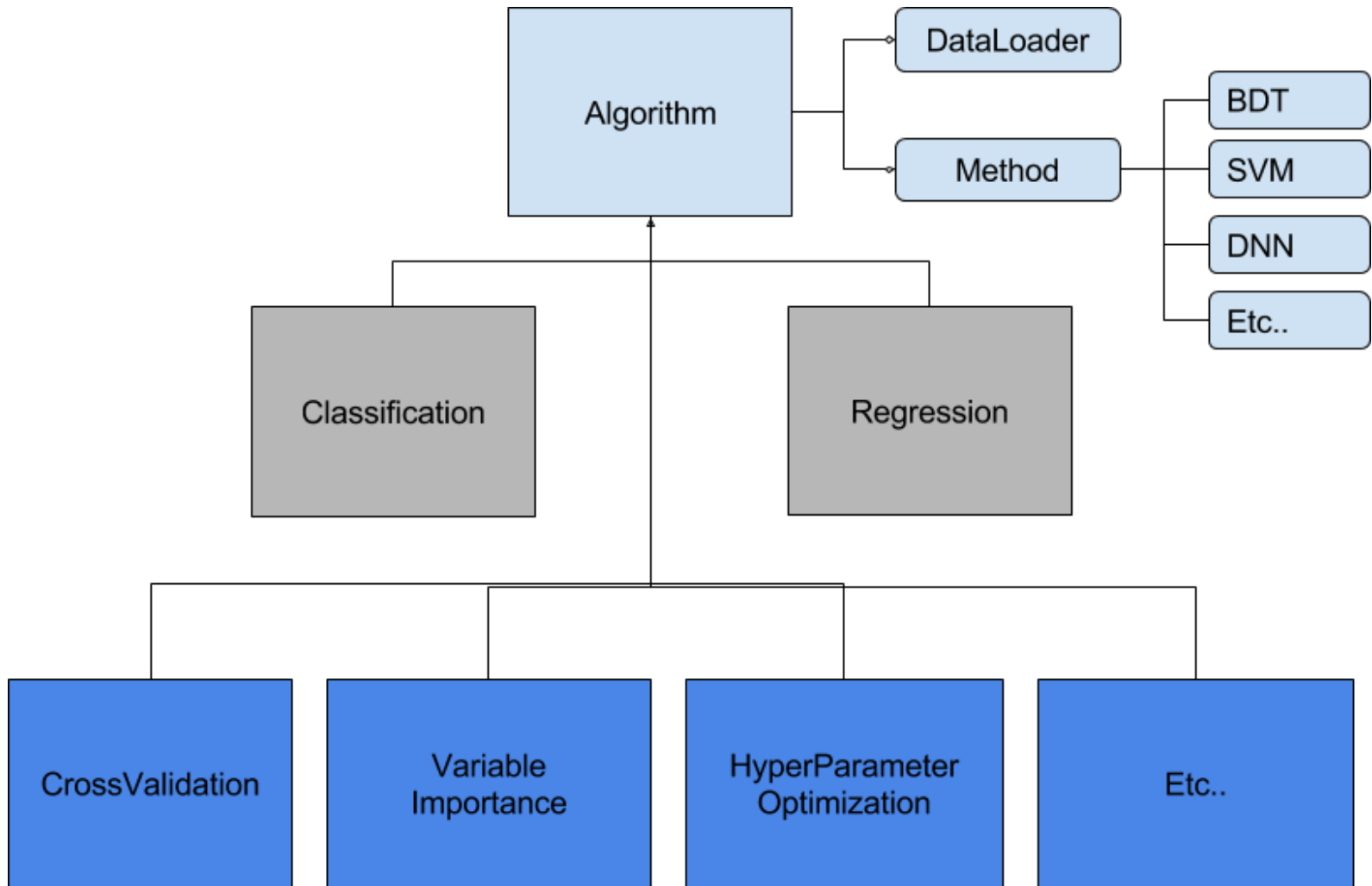


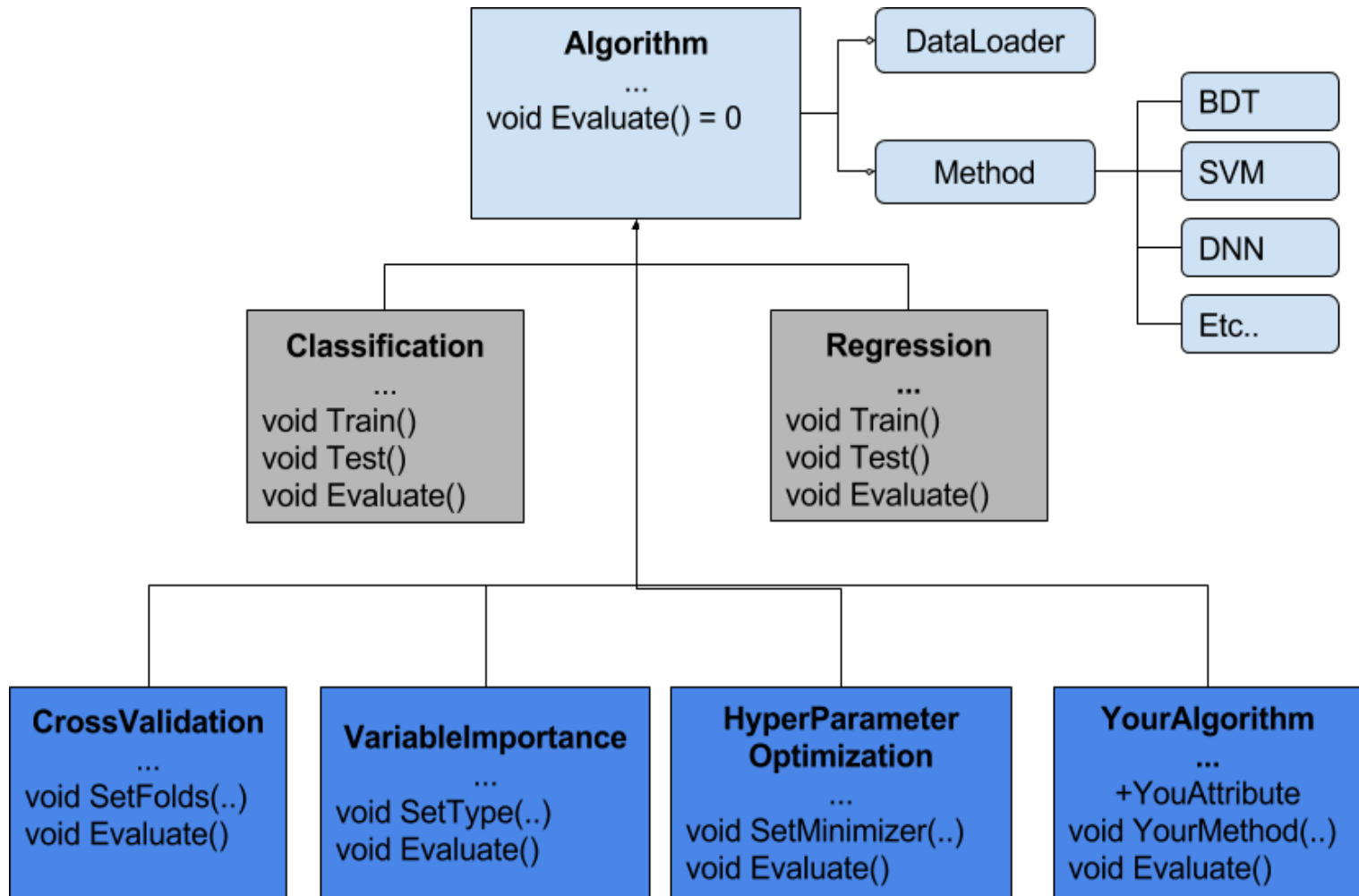


# New architecture for TMVA





# New architecture for TMVA





# Prototype with examples

Jupyter notebooks

Classification

Cross Validation

Variable Importance



# Parallel architecture for TMVA

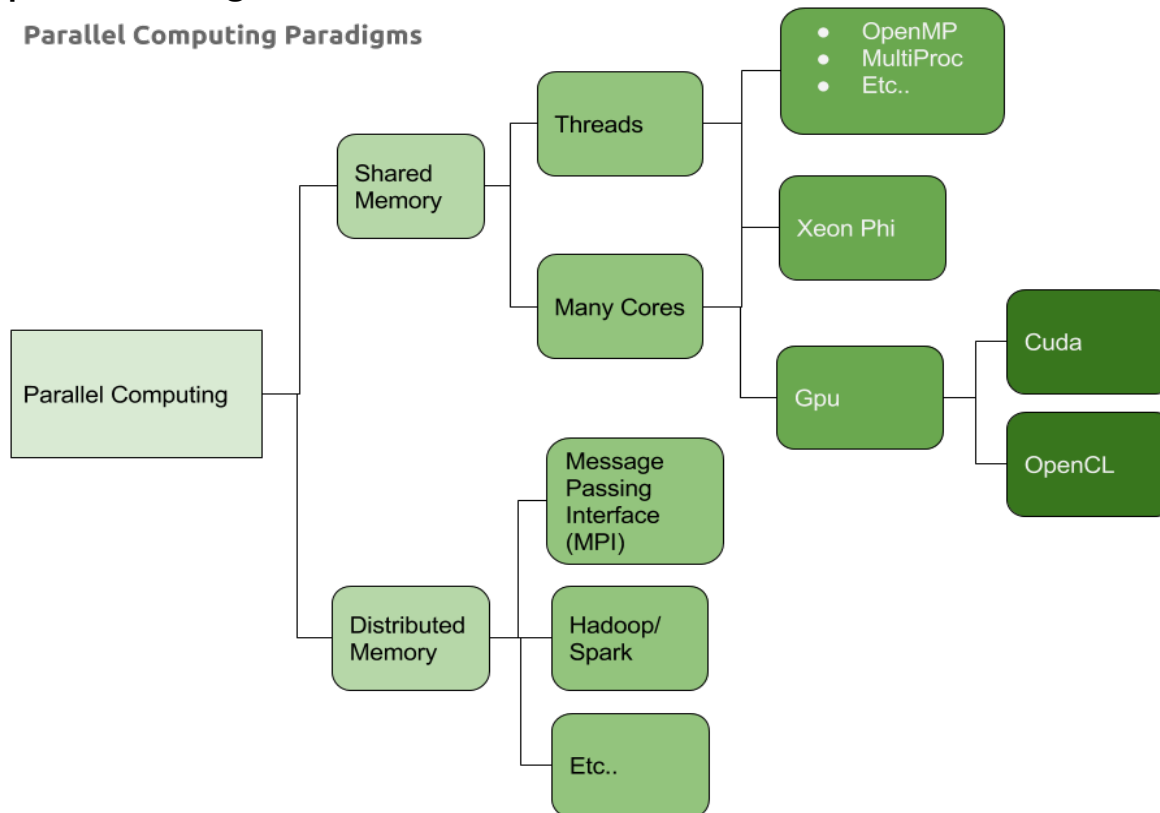
- Why parallel computing

- Huge amount of data
- Expensive algorithms

- Which paradigm

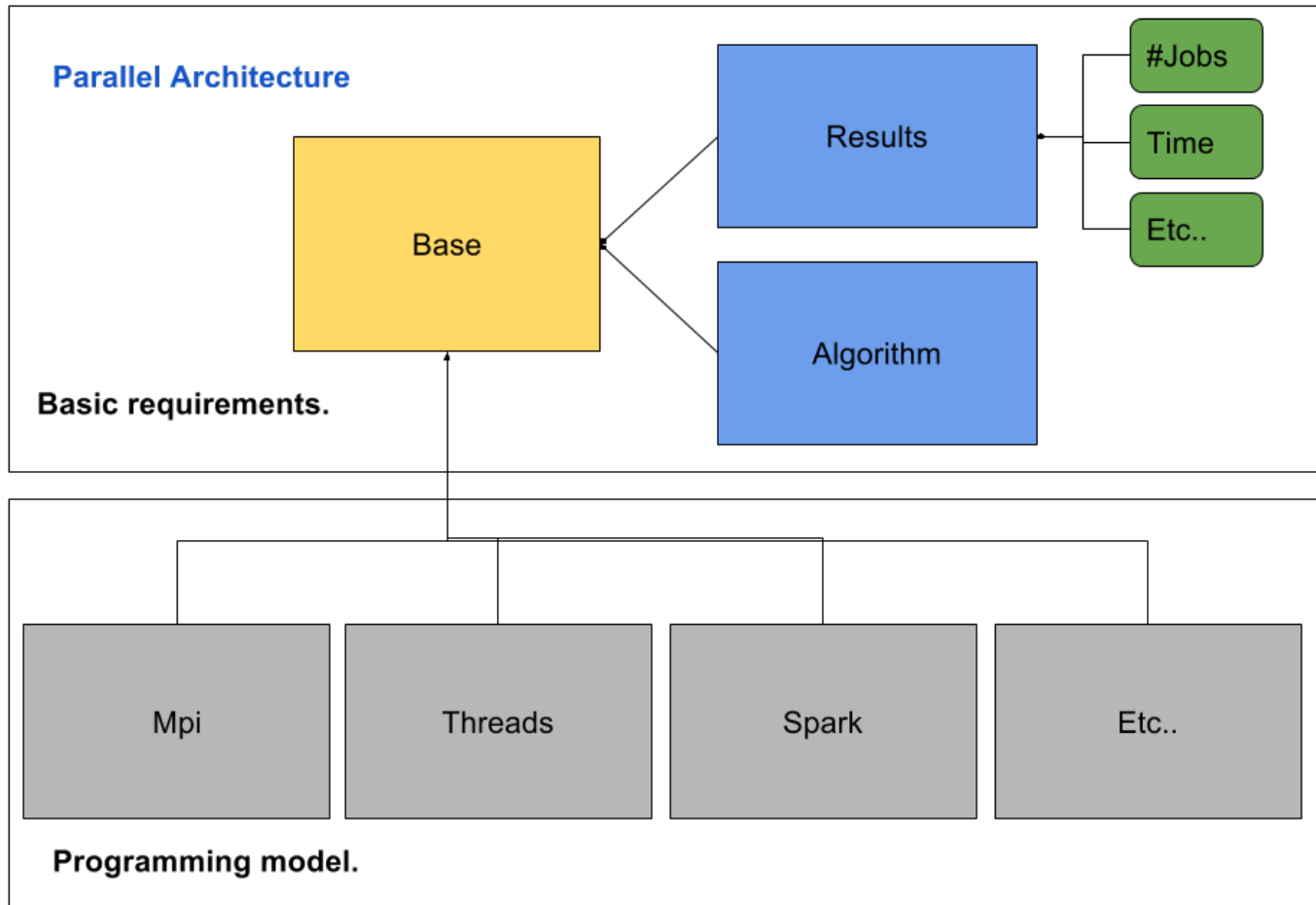
- Many

## Parallel Computing Paradigms





# New parallel architecture for TMVA





# Prototype with examples

Jupyter notebooks

ParallelExecutor (MultiProc)  
ParallelExecutorMpi (OpenMPI)



# Conclusions

- Modularity in TMVA
- Parallel architectures
  - Theads
  - MultiProc
  - Spark
  - Mpi
  - Gpu
- Great summer at CERN