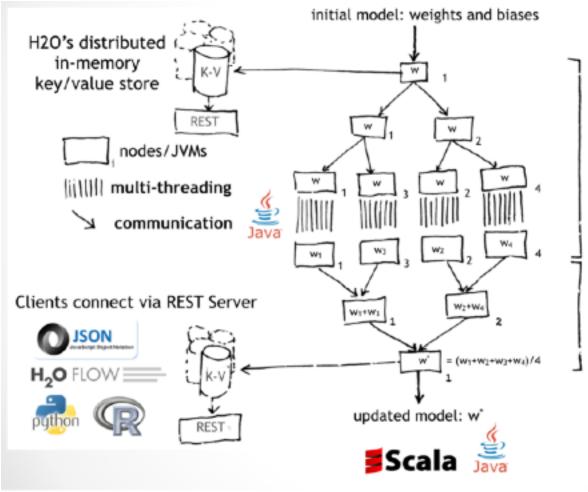


H2O Deep Learning Architecture



Map/Reduce Iterations

Map: training (fprop+bprop)
parallelized across all nodes
and all CPU cores

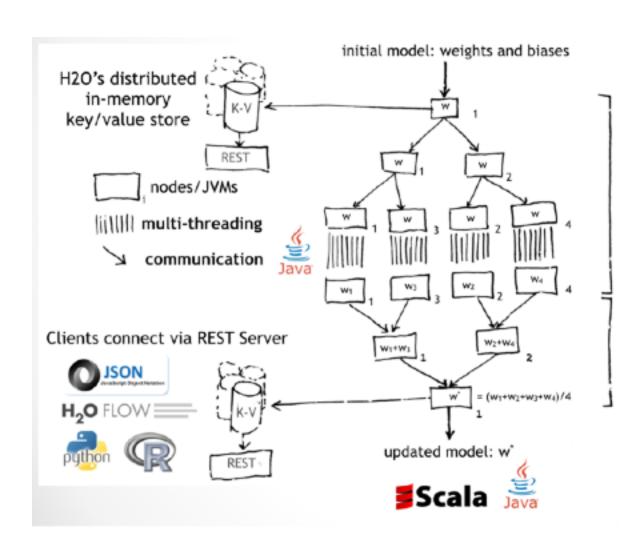
Reduce: model aggregation for global convergence Shown here: Model averaging New: Elastic averaging

Communication frequency is auto-tuned and user-controllable (affects convergence)

Supervised Learning:

ENSEMBLES

H2O Deep Learning Architecture



Map/Reduce Iterations

Map: training (fprop+bprop)
parallelized across all nodes
and all CPU cores

Reduce: model aggregation for global convergence

Shown here: Model averaging

New: Elastic averaging

Communication frequency is auto-tuned and user-controllable (affects convergence)

