NeuralNetwork

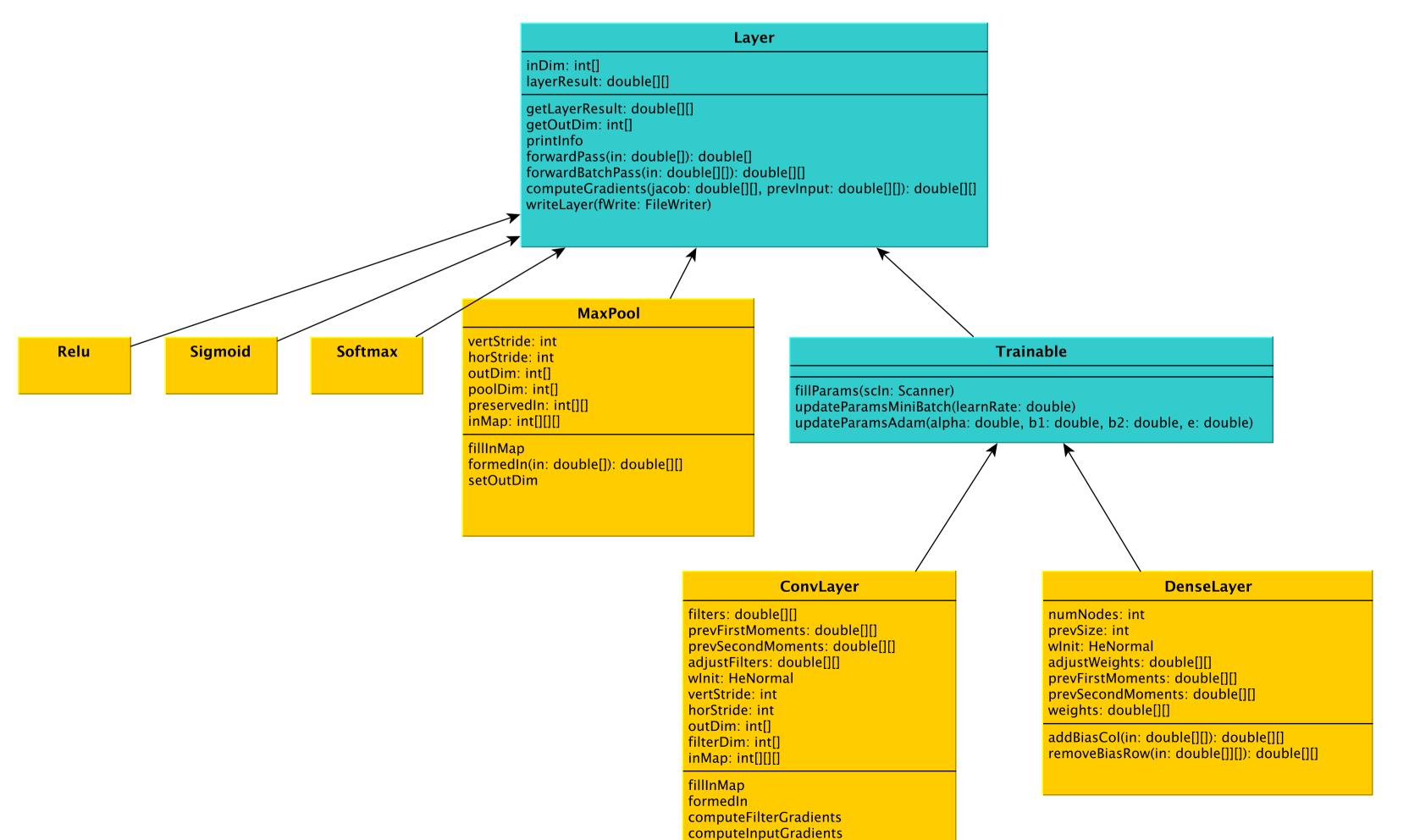
net: Sequential netWrite: NetworkWriter netLoad: NetworkLoader

addConv addDense addMaxPool addRelu addSigmoid addSoftmax compile evaluate predict load save printInfo

Sequential

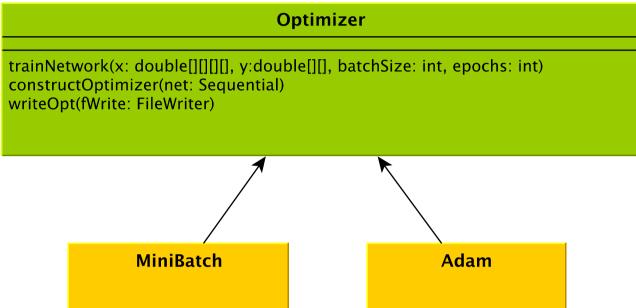
layers: ArrayList<Layer>
opt: Optimizer
lossFunc: LossFunction
metrics: String[]

inDim: int[]
all methods from NeuralNetwork and some getters.



setOutdim

calculateLoss(expected: double[], actual: double[]): double calculatePDerivatives(expected: double[], actual: double[]): double[] writeFunc(fWrite: FileWriter) CrossEntropy MeanSquaredError



NetworkLoader

numNodes: Integer
poolDim: int[]
strideLength: int[]

loadNetwork(path: String): Sequential addLayer(scln: Scanner, net: Sequential, inSize: int[]): boolean addConvLayer(metaLine: String[], scln: Scanner, net: Sequential, inSize: int[]): boolean addMaxPoolLayer(metaLine: String[], scln: Scanner, net: Sequential, inSize: int[]): boolean addDenseLayer(mataLine: String[], scln: Scanner, net: Sequential, inSize: int[]): boolean setParams(metaLine: String[]) getInShape(scln: Scanner): int[] compileNetwork(meta: String[], scln: Scanner)

constructOptimizer(tokens: String[]): Optimizer
instanceToNull

NetworkWriter

net: Sequential

writeNetwork(path: String)
writeInShape(fWrite: FileWriter)