

Weka

Working with Weka

Simple Neural Network (NN)

1. Explorer
2. Preprocess
3. Open File (csv or arff): diabetes.arff
4. Choos filter -> filters -> unsupervised -> attributes -> Normalize -> Apply
5. Classify -> Choose
6. Classifier -> functions -> MultilayerPerceptron
7. Select Test Option
8. Start

Fine Tuning

- Click on the MultilayerPerceptron , parameters form will pop up.
- GUI -> True , to see the visualization.
- Training Time: how many times to train the model.
- Hiddenlayers : how many hidden layers.
- Seed: the initialization state of a random number generator.
- NormalizeAttributes: it will normalize attributes befor training.
- LearningRate: These algorithms may use a learning rate to decide by how much would you update the network parameters on each iteration.
- momentum: In neural network optimization, momentum can be seen as a measure of how much the parameters are moving in a certain direction. By adding momentum, you can reduce the oscillations and noise in the gradient descent algorithm, and increase the speed and stability of the convergence.