

Machine Learning Applications for Biological Data

Lab 03

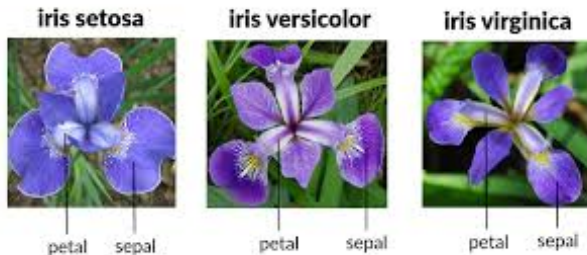
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Biostatistics, Fall 2020

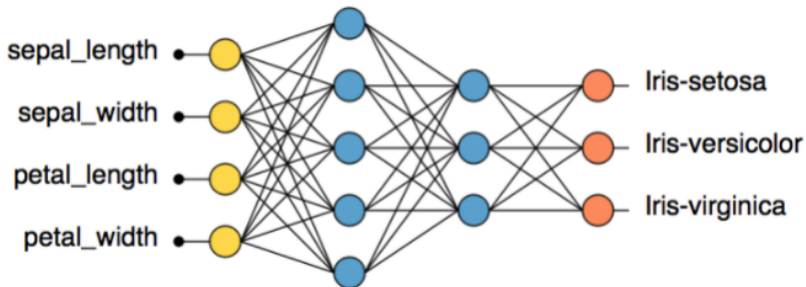
Introduction

This is perhaps the best known database to be found in the pattern recognition literature. Fisher's paper is a classic in the field and is referenced frequently to this day. (See Duda Hart, for example.) The data set contains 3 classes of 50 instances each, where each class refers to a type of iris plant. One class is linearly separable from the other 2; the latter are NOT linearly separable from each other.



Training

We made a simple classifier to make classification using pytorch.

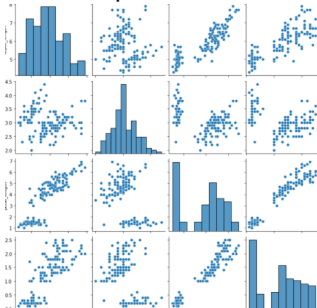


Important theorem

The dataset contains a set of 150 records under five attributes - sepal length, sepal width, petal length, petal width and species.

Threshold

Pairwise plot of variables



Pairwise plot of variables with different species

