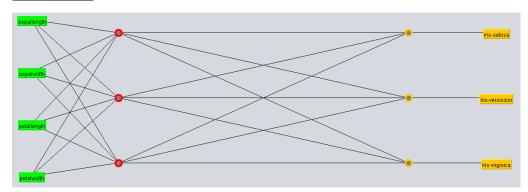
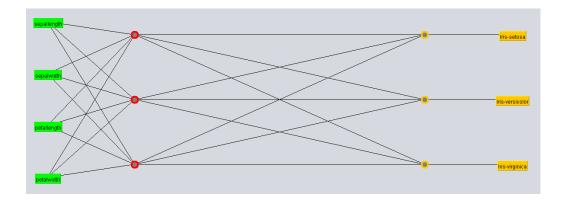
Report

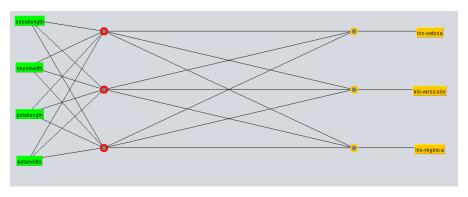
Part 1

Part 2

Iris Dataset







```
=== Stratified cross-validation ===
Correctly Classified Instances
                                                                                        33.3333
Incorrectly Classified Instances
                                                            100
Incorrectly Classified Insta
Kappa statistic
Mean absolute error
Root mean squared error
Relative absolute error
Root relative squared error
Total Number of Instances
                                                           0 0 0 4445 0 4715 100 0064 % 100 0 235 % 150
 === Detailed Accuracy By Class ===
                          TP Rate FP Rate Precision Recall
                                                                                                                                  PRC Area Class
                                                                      0.000
                                                                                    0.000
                                                                                                                   0.000
                                                                                                                                  0.192
                                                                                                                                                  Iris-setosa
                           1.000 1.000 0.333
                                                                      1.000
                                                                                                                                                  Iris-versicolor
Weighted Avg.
                         0.333 0.333
  a b c <--- classified as
0 50 0 | a = Iris-setosa
0 50 0 | b = Iris-versicolor
0 50 0 | c = Iris-virginica
```

- Explanations as to what are ANNs good for. As ANNs are nonlinear models
 that easy to use and understand, when used with a back propagation learning
 algorithm, they are used to solve various classification and forecasting
 problems. This said, their major advantage is solving problems like image and
 sound recognition, text and time series analysis and others.
- Where would you use them? We'd use them for classification, as it's great in recognizing patters and sequences. Another area where they can be used, is robotics. This are especially useful in prosthesis. Also, function approximation and regression analysis.
- Are they worth the effort implementing or not? Is anything worth the effort?
 No, but really, it is totally dependent on the problem. You won't want to implement and ANN where another simpler algorithm can be used. Like any other problem in programming, you have to weigh the pros and the cons against each other.
- What kinds of problems do they not solve? World hunger and cancer. Oh,
 that wasn't what you meant, was it? Well, ANN are accurate, yes, but they are
 often tedious to train since they require time and effort. They also lack
 explanatory power, which means you'll be likely to stay in the dark when they
 reach a certain conclusion.