8. Link a Neural Net node to the stream to the right of the Type node (from the Modeling palette).
   a. The name assigned to the node should be CHURN, picking up on the name of the Target variable. If this is not the case, check that you have specified the role of the CHURN variable as “In.”
   b. Execute the Neural Net node.
   c. You will see a feedback graph at the top of the screen that shows the current accuracy of classification during the iterative training of the neural net.
   d. When the model is trained, it will appear in the Models tab screen in the upper-right corner of the palette.

Now, we will build the Testing set data stream. You should evaluate the predictive power of the model on the testing set rather than on the training set. Actually, this testing data set will be the third partition of the data set used in this example. Behind the scenes, the Clementine Neural Net node divided the training data set into two pieces, sized by settings in the node (50:50 is default). The algorithm trains the model during one pass (iteration) through the data set and then tests the results. The internal testing results are used to optimize settings for the number of neurons in the hidden layer, learning rate, and momentum settings of the final model. The Clementine neural net is a highly automated adaptive algorithm that is very easy to use to create a very good model, even with its default settings. You can modify the settings to optimize performance with your data set.

Your screen should look like Figure F.2 now. Notice the trained model icon in the upper-right box in the interface.

9. Double-click the Training Set Sample node.
   a. Select Copy node (or just press Ctrl-C).
   b. Press Ctrl-V to paste the node into the modeling palette below the first sample node (standard Windows keystrokes).
   c. Double-click the pasted node, make sure the Settings tab is open, and change the radio button to Discard Sample. This operation will pass the other half of the incoming records to become the Testing data set.
   d. Click the Annotations tab and change the name to Testing Set.
   e. Connect the Testing set node to the variable file input node.

10. Add the derived nodes like you did in the training stream. (Note that you can click on the first one, hold the Shift key, and click on the third one. All three nodes will be highlighted. You can copy and paste them as a group.)

11. Copy the Type node (like you did the copy operation before).
    Paste the second Type node in the palette and connect it to the Testing Set node.

12. Now drag and drop the trained model icon from the Models tab (upper-right box in the interface) and connect it to the Type node.

13. Finally, connect an Evaluation node (from the Graphics palette) to the neural net model icon. Your screen should look like Figure F.3.
   a. Double-click the Evaluation node and make sure the Plot tab is open.
   b. In the middle of the screen, you will see a box labeled Percentiles, with a drop-down arrow in it. Click on the arrow to view the different kinds of bins (quantiles)