Excercise Scoring the Model (TBD until Exam!)

(You may work in groups or help each other as long as you understand the code and are able to modify/explain each relevant code line (same goes for pasted code from the web).

Previous Excercise

Excercise 5 Get the classifier into your browser

a. The predictive model markup language is a common export format for machine learning models. Use the R package pmml to export the classifier (if you want to go the easy way use a decision tree or a random forrest

b. Use the opencpu package to create a webserver that can return your model (tip use XML::saveXML to convert the returnvalue to a string)

c. retrieve the XML from a webpage like this

```
var pmml = new Promise((resolve,reject) => {
                        var onSuccess = function(data) {resolve($.parseXML(dat

          $.ajax({

          type: "POST",

          url: (this.base + "R/getPMML/json"),

          data: 'json_data={"sensor": ' + JSON.stringify(this.sensors) +
          ',"classes": ' + JSON.stringify(this.label) + ',"classifier":
          "rpart"}',

          success: onSuccess,

          dataType: "json"

          });
          });
```

Excercise 6 Creating a Javascript predictor

a. Create a decision tree (or any other classifier) from the XML (see e.g. http://stackoverflow.com/questions/8368698/how-to-implement-a-decision-tree-in-javascript-looking-for-a-better-solution-th/8369235#8369235, for the decision tree look for TreeModel and Node in the XML Dom) or use https://github.com/riedel/jActivity2PMML/tree/master/inst/www for a solution how to build the classifier....

b. Use the code from excercise 1 to automatically excecute your model (Note: you have to implement windowing and calculate the features you used in javascript)

c. Check if its working :)

Excercise 7 Let the classifier make changes to your application

Think about a nice application to use the classifier

a. to make a web application context sensitive (you may use AWC-core or COP.js)

    1. You can change the Font-Size (via CSS)
    2. You can present different suggestion in a menu if some one is on the move

b. Think about further applications and write them down

    1. What other inputs from the browser can be used as "sensor"
    2. What are interesting contexts