AU-Openscoring

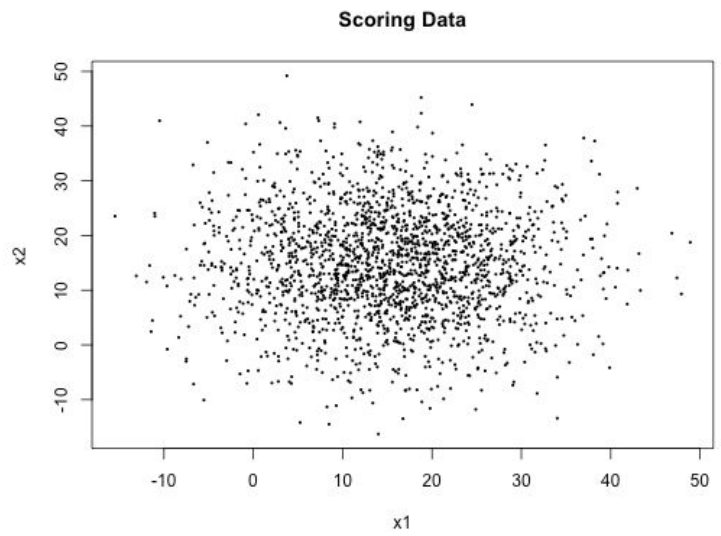
April 17, 2016

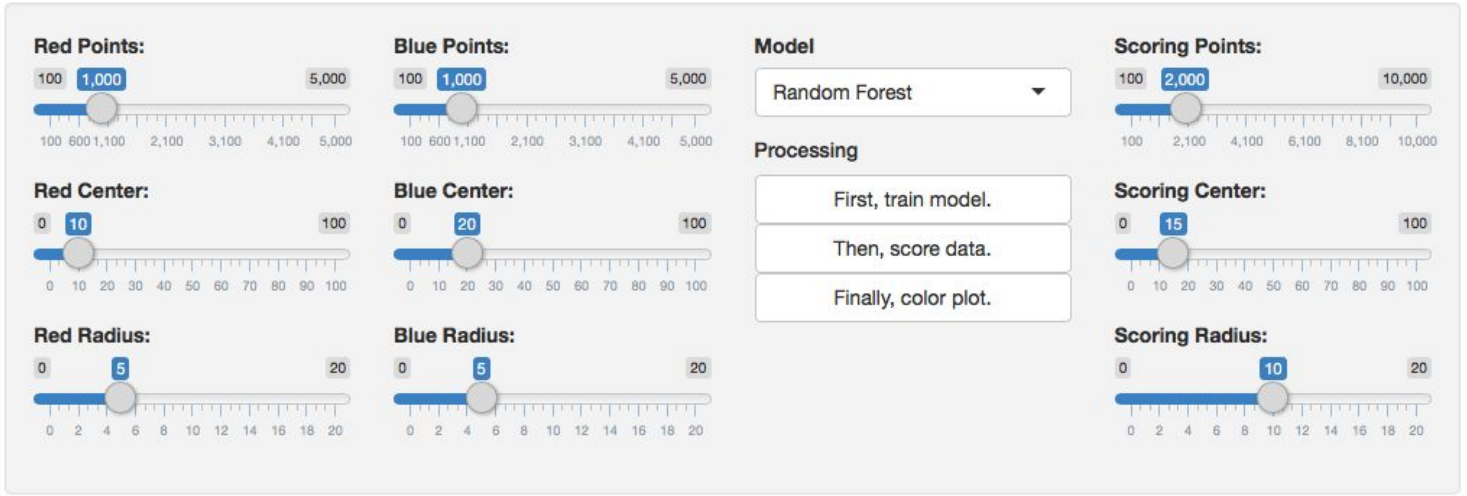
Running the Webapp

```
Rscript -e 'library(methods);
shiny::runApp(launch.browser=TRUE)'
```

Create Data


Training Data
x2
x1
0
10
20
30
40


Scoring Data
x2
x1
-10
0
10
20
30
40
50

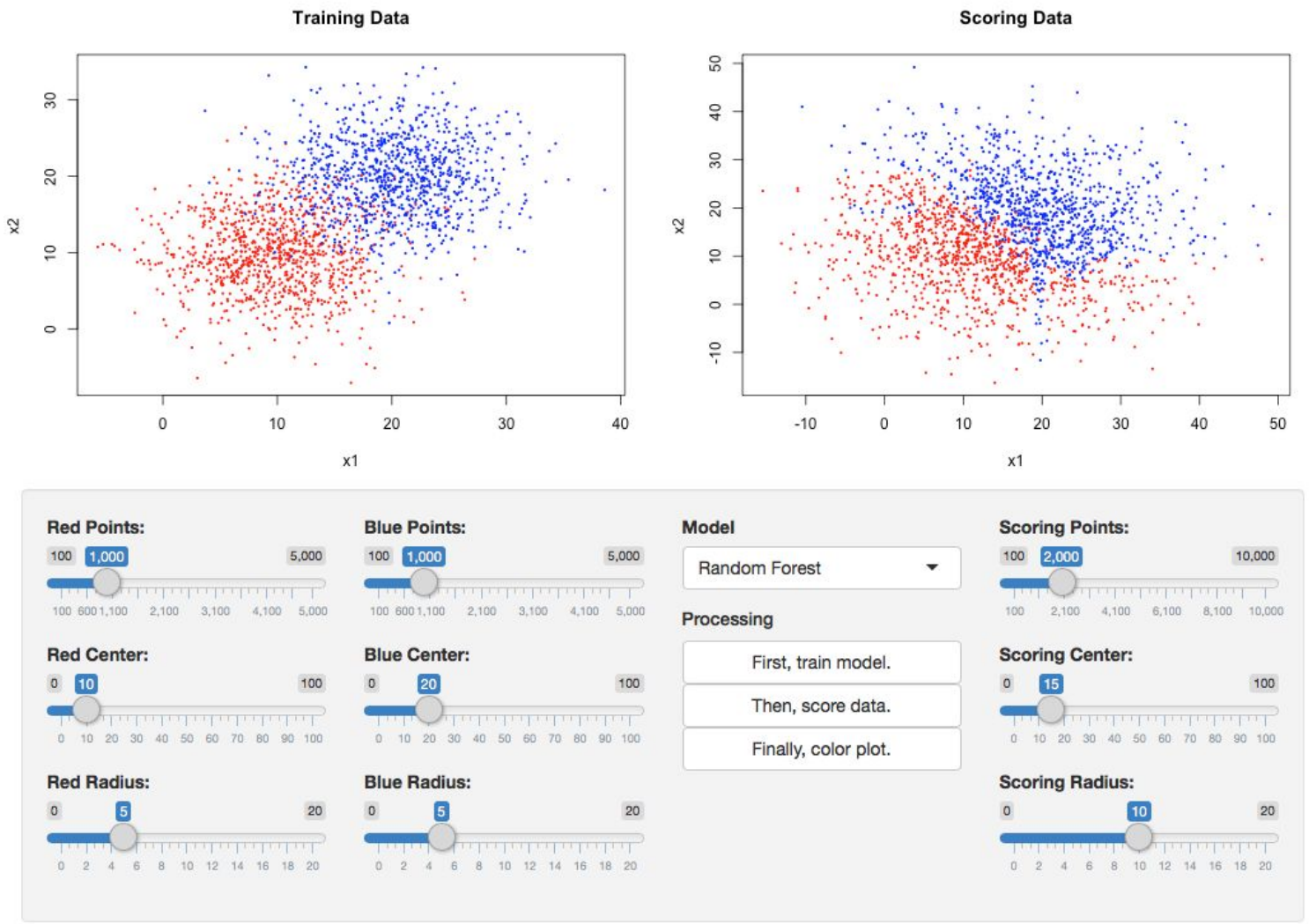

Red Points:
100 1,000 5,000
100 600 1,100 2,100 3,100 4,100 5,000
Blue Points:
100 1,000 5,000
100 600 1,100 2,100 3,100 4,100 5,000
Model
Random Forest
Processing
First, train model.
Then, score data.
Finally, color plot.
Scoring Points:
100 2,000 10,000
100 2,100 4,100 6,100 8,100 10,000
Red Center:
0 10 100
0 10 20 30 40 50 60 70 80 90 100
Blue Center:
0 20 100
0 10 20 30 40 50 60 70 80 90 100
Scoring Center:
0 15 100
0 10 20 30 40 50 60 70 80 90 100
Red Radius:
0 5 20
0 2 4 6 8 10 12 14 16 18 20
Blue Radius:
0 5 20
0 2 4 6 8 10 12 14 16 18 20
Scoring Radius:
0 10 20
0 2 4 6 8 10 12 14 16 18 20

Create Model and Score

```
Listening on http://127.0.0.1:6062
Password:
Loading packages and parameters... Complete.
Loading training data... Complete.
Creating pipeline... Complete.
Training model... Complete.
Apr 13, 2017 2:07:42 PM org.jpmml.sklearn.Main run
INFO: Parsing PKL..
Apr 13, 2017 2:07:42 PM org.jpmml.sklearn.Main run
INFO: Parsed PKL in 214 ms.
Apr 13, 2017 2:07:42 PM org.jpmml.sklearn.Main run
INFO: Converting..
Apr 13, 2017 2:07:42 PM org.jpmml.sklearn.Main run
INFO: Converted in 296 ms.
Apr 13, 2017 2:07:42 PM org.jpmml.sklearn.Main run
INFO: Marshalling PMML..
Apr 13, 2017 2:07:44 PM org.jpmml.sklearn.Main run
INFO: Marshalled PMML in 1826 ms.
Creating PMML... Complete.
Uploading PMML to openscoring.snoopy.dslab.aunalytics.com... Complete.
Received the following response:
{
  "id" : "webapp_model",
  "miningFunction" : "classification",
  "summary" : "Ensemble model",
  "properties" : {
    "created.timestamp" : "2017-04-13T18:07:45.774+0000",
    "accessed.timestamp" : null,
    "file.size" : 698961,
    "file.md5sum" : "5098edc03a4f04d9b06162afe3d11bef"
  },
```

```
  "schema" : {
    "activeFields" : [ {
      "id" : "x2",
      "dataType" : "float",
      "opType" : "continuous"
    }, {
      "id" : "x1",
      "dataType" : "float",
      "opType" : "continuous"
    } ],
    "groupFields" : [ ],
    "targetFields" : [ {
      "id" : "y",
      "dataType" : "string",
      "opType" : "categorical",
      "values" : [ "blue", "red" ]
    } ],
    "outputFields" : [ {
      "id" : "probability_blue",
      "dataType" : "double",
      "opType" : "continuous"
    }, {
      "id" : "probability_red",
      "dataType" : "double",
      "opType" : "continuous"
    } ]
  }
}
Loading packages and parameters... Complete.
Posting scoring data to openscoring.snoopy.dslab.aunalytics.com... Complete.
Received the following scores:
y,probability_blue,probability_red
red,0.0,1.0
blue,0.6,0.4
blue,1.0,0.0
blue,1.0,0.0
blue,1.0,0.0
```

Color


Training Data
Scoring Data
x1
x2
Red Points:
Blue Points:
Model
Random Forest
Scoring Points:
Processing
First, train model.
Then, score data.
Finally, color plot.
Red Center:
Blue Center:
Scoring Center:
Red Radius:
Blue Radius:
Scoring Radius: