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  - **-R**
    - Rserve R
    - R
    - R
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SQLJava

Yellowfin

	100%
<b>1-9</b>	1-91
<b>10</b>	10
<b>N</b>	N
<b>N</b>	N
<b>9-1</b>	9-11
	-/
	2
	2
	2
<b>%</b>	%
	2
	e
<b>Null</b>	Null
<b>%</b>	%
<b>%</b>	
<b>%</b>	%
	2

<b>10</b>	10
<b>N</b>	N
<b>N</b>	NN
<b>/N%</b>	N%
	N

	2
	2
	2
	2

	10-1
<b>Deviation</b>	
<b>Linear Regression</b>	
<b>Mean</b>	
<b>Median</b>	
<b>Mode</b>	
<b>Moving Average</b>	
	22
<b>Moving Total</b>	N
<b>Naïve Forecasting</b>	1t-1
<b>Polynomial Regression</b>	23
<b>Quartile</b>	4-1
<b>Standard Deviation</b>	
<b>Standard Score</b>	
<b>Stepped Regression</b>	
<b>Trend</b>	
<b>Triple Exponential Smoothing</b>	
<b>Variance</b>	
<b>Weighted Moving Average</b>	

	2
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## **-R**

R

### **Rserve R**

YellowfinR

1. **Yellowfin-R jar** Yellowfin/appserver/webapps/ROOT/WEB-INF/lib
2. **R**
3. **Rserve** RserveTCP/IPRRR install.packages("Rserve")  
install.packages("magrittr")  
install.packages("rattle") (linux requires special installation)
4. **Rserve** YellowfinR RserveR  
library(Rserve)  
Rserve()
5. **RRSCRIPT\_PATH** RRSCRIPT\_PATH  
RSCRIPT\_PATH=/home/foo/Rscripts

## **R**

YellowfinR

<R\_file\_name>.RYellowfin<R\_file\_name>.R.input.csv R<R\_file\_name>.R.result.csv

Neural NetworksRR

### Sample R-Script : neural-net-script.R

```
setwd("C:/R/R-3.2.3/bin/x64")
library(rattle) #
To access the weather dataset and utility commands.
library(magrittr) # For the
%>% and %<>% operators.
building <- TRUE
scoring <- ! building
# A pre-defined value is used
to reset the random seed so that results are repeatable.
crv$seed <- 42
# Load the data.
rPATH <-
Sys.getenv("RSCRIPT_PATH")
rINPUT <- paste0(rPATH , "/neural-net-script.r.input.csv")
rOUTPUT <- paste0(rPATH
,"/neural-net-script.r.result.csv")
dataset <-
read.csv(file=rINPUT, header=FALSE, sep=", ")
# Note the user
selections.
# Build the
training/validate/test datasets.
set.seed(crv$seed)
crs$nobs <- nrow(dataset) #
366 observations
crs$sample <- crs$train
<- sample(nrow(dataset), 0.7*crs$nobs) # 256 observations
crs$validate <-
sample(setdiff(seq_len(nrow(dataset)), crs$train), 0.15*crs$nobs) # 54
observations
crs$test <-
setdiff(setdiff(seq_len(nrow(dataset)), crs$train), crs$validate)) # 56
observations
# The following variable
selections have been noted.
crs$input <-
c("V1", "V2", "V3", "V4","V5")
crs$target
<- "V6"
=====
# Neural Network
=====
# Build a neural network model
using the nnet package.
library(nnet, quietly=TRUE)
# Build the NNet model.

set.seed(199)
crs$nnet <-
nnet(as.factor(V6) ~ .,data=dataset[crs$sample,c(crs$input, crs$target)],size=10,
skip=TRUE, MaxNWts=10000, trace=FALSE, maxit=100)
=====
# Score a dataset.
=====
# Obtain probability scores for
the Neural Net model on weather.csv [validate].
#crs$pr <- predict(crs$nnet,
newdata=dataset[crs$validate, c(crs$input)], type="class")
#crs$pr <- predict(crs$nnet,
newdata=dataset[crs$validate, c(crs$input)], type="class")
crs$pr <- predict(crs$nnet,
newdata=dataset, type="class")
write.table(crs$pr,
file=rOUTPUT, row.names=FALSE, col.names = FALSE)
```

R

Advanced Metrics

Select Function: Rserve R

Search: Apply R-Script

Apply R-Script  
This function will invoke an R-script (in the temporary file) which is pointed to by \$1 parameter. The R-script will return a result value which will be included in the report

Attribute	Setting	User Prompt
R Script File Name	scriptName.r	Name Of The R Script to Invoke
Value For MinTemp	MinTemp	First Parameter
Value For MaxTemp	MaxTemp	Second Parameter
Value For Rainfall	Rainfall	Third Parameter
Value For Evaporation	Evaporation	Fourth Parameter
Rain Today	RainToday	Fifth Parameter
Value For RainTomorrow	RainTomorrow	Sixth Parameter

Step 1: Use 'Apply R-Script' to convert to

210

1.

a. /

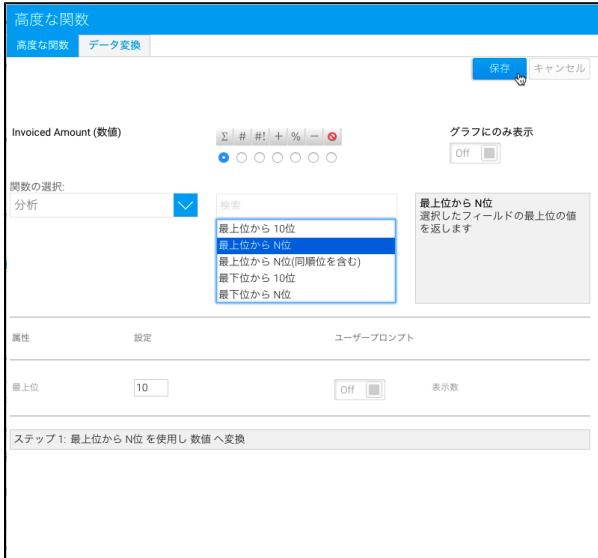
カラム(列)	Year	Sum Invoiced ...
口ウ(行)		

b.

Year	Sum Invoiced Amount
2009	\$17,633,473
2010	\$8,611,470
2011	\$11,012,244
2012	\$81,690,100
2013	\$158,353,519
2014	\$152,912,577
2015	\$28,207,858
2016	\$12,522,605

2.

3.



- a.
- b.
- c.
- d.

4.

1. +

The screenshot shows a summary row in a report. The first column contains a plus sign (+). The second column contains the text 'Year'. The third column contains the text 'Sum Invoiced Amount' followed by a hand cursor icon, indicating it is a clickable link.

2.  
3.

- a.
- b.
- c.
- d.

4.

1.

Year	Sum Invoiced Amount
2009	\$17,633,473
2010	\$8,611,470
2011	\$11,012,244
2012	\$81,690,100
2013	\$158,353,519
2014	\$152,912,577
2015	\$28,207,858
2016	\$12,522,605

2.

3.

- a.
- b.
- c.
- d.

4.

1.

2.

3.

4. Java1,000

5.

6.