Machine Learning Datasets in R (10 datasets you can use right now)

Brownlee on February 12, 2016 in **R Machine Learning**

Updated on August 15, 2020

You need standard datasets to practice machine learning.

In this short post you will discover how you can load standard classification and regression datasets in R.

This post will show you 3 R libraries that you can use to load standard datasets and 10 specific datasets that you can use for machine learning in R.

It is invaluable to practice with standard datasets in R so that you can test, practice and experiment with machine learning techniques and improve your skill with the platform.

Let's get started.

Practice On Small Well-Understood Datasets

There are hundreds of standard test datasets that you can use to practice and get better at machine learning.

Most of them are hosted for free on the UCI Machine Learning Repository. These datasets are useful because they are well understood, they are well behaved and they are small.

This last point is critical when practicing machine learning because:

- You can download them fast.
- You can fit them into memory easily.

- You can run algorithms on them quickly.

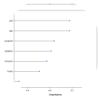
Never miss a tutorial:

Learn more about practicing machine learning using datasets from the UCI Machine Learning Repository in this post.

- Practice Machine Learning wit Small In-Memory Datasets from the UCI Machine Learning Repository

Picked for you:

Your First Machine Learning Project in R Step-By-Step



Feature Selection with the Caret R Package

How to Build an Ensemble Of Machine Learning Algorithms in R

Tune Machine Learning Algorithms in R (random forest case study)

How To Estimate Model Accuracy in R Using The Caret Package

Access Standard Datasets in R

You can load the standard datasets into R as CSV. There is a more convenient approach to loading the standard datasets and are available in third party R libraries that you can download from the Comprehensive R Archive Network (CRAN).

Which libraries should you use and what datasets are good to start with.

How To Load Standard Datasets in R

In this section you will discover the libraries that you can use to get access to standard machine learning datasets.

Start Machine Learning

You will also discover specific classification and regression that you can load and use to practice machine learning in R.

Never miss a tutorial:

Iris Flowers Dataset
Photo by Rick Ligthelm, some rights reserved.

The datasets library comes with base R which means you do not need to explicitly load the library. It includes a s that you can use.

You can load a dataset from this library by typing:

```
1 data(DataSetName)
```

For example, to load the very commonly used iris dataset:

```
1 data(iris)
```

To see a list of the datasets available in this library, you can type:

```
1 # list all datasets in the package
2 library(help = "datasets")
```

Some highlights datasets from this package that you could use are below.

Iris Flowers Dataset

scription: Predict iris flower species from flo

- Type: Multi-class classification
- Dimensions: 150 instances, 5 attributes
- puts: Numeric
- tput: Categorical, 3 class labels
- UCI Machine Learning Repository: Description
- Published accuracy results: Summary

```
1 #iris flowers datasets
2 data(iris)
3 dim(iris)
4 levels(iris$Species)
5 head(iris)
```

You will see:

```
1   Sepal.Length Sepal.Width Petal.Length Petal.Width Species
2 1          5.1         3.5          1.4         0.2  setosa
3 2          4.9         3.0          1.4         0.2  setosa
4 3          4.7         3.2          1.3         0.2  setosa
5 4          4.6         3.1          1.5         0.2  setosa
6 5          5.0         3.6          1.4         0.2  setosa
7 6          5.4         3.9          1.7         0.4  setosa
```

gle Ec mi egr ion Data

- Description: Predict number of people employed from economic variables
- Type: Regression
- Dimensions: 16 instances, 7 attributes
- puts: Numeric
- utput: Numeric

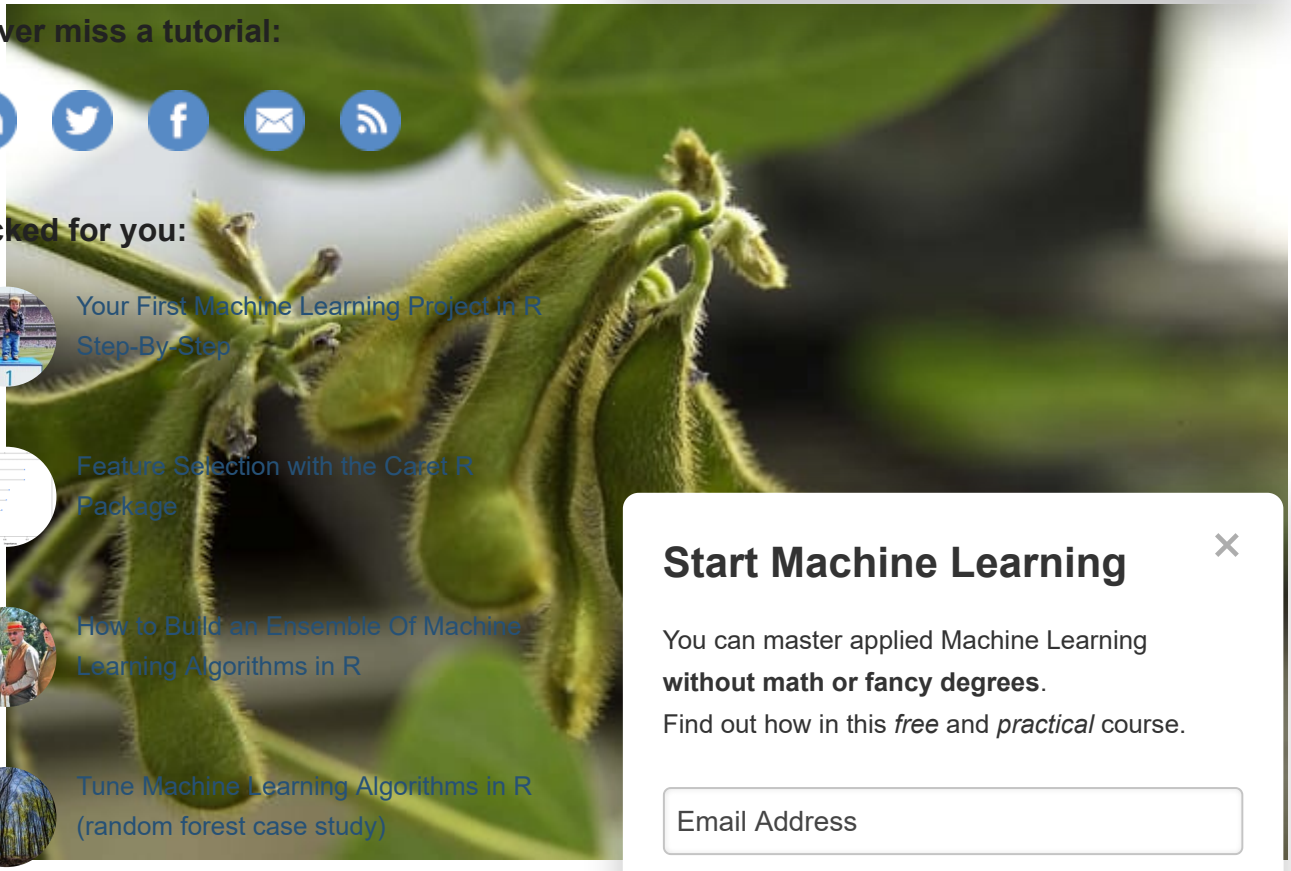

```
# Longley's Economic Regression Data
data(longley)
dim(longley)
head(longley)
```

You will see:

```
  GNP.deflator  GNP Unemployed Armed.
1         83.0 234.289      235.6
2         88.5 259.426      232.5
3         88.2 258.054      368.2
4         89.5 284.599      335.1
5         96.2 328.975      209.9
6         98.1 346.999      193.2
```


Library: mlbench

Start Machine Learning



Soybe

Photo by United Soybean

L rom the manual for the library:

> *A collection of artificial and real-world mach*
> *several data sets from the UCI repository.*

You can learn more about the *mlbench* library on the mlbench CRAN page.

If not installed, you can install this library as follows:

```
install.packages("mlbench")
```

You can load the library as follows:

```
# load the library
library(mlbench)
```

To see a list of the datasets available in this library, you can type:

```
# list the contents of the library
library(help = "mlbench")
```

Some highlights datasets from this library that you could use are:

Never miss a tutorial:

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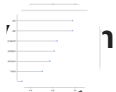

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Using The Caret Package

Housing Data

- Description: Predict the house price in Boston
- Type: Regression
- Dimensions: 506 instances, 14 attributes
- Inputs: Numeric
- Output: Numeric
- UCI Machine Learning Repository: Description

```
# Boston Housing Data
data(BostonHousing)
dim(BostonHousing)
head(BostonHousing)
```

I see:

```
  crim zn indus chas   nox    rm  age    dis rad tax ptratio      b lstat medv
1 0.00632 18  2.31    0 0.538 6.575 65.2 4.
2 0.02731  0  7.07    0 0.469 6.421 78.9 4.9671   2 242    17.8 396.90  9.14 21.6
3 0.02729  0  7.07    0 0.469 7.185 61.1 4.9671   2 242    17.8 392.83  4.03 34.7
4 0.03237  0  2.18    0 0.458 6.998 45.8 6.0622   3 222    18.7 394.63  2.94 33.4
5 0.06905  0  2.18    0 0.458 7.147 54.2 6.0622   3 222    18.7 396.90  5.33 36.2
6 0.02985  0  2.18    0 0.458 6.430 58.7 6.0622   3 222    18.7 394.12  5.21 28.7
```


Wisconsin Breast Cancer Database

- Description: Predict whether a cancer is malignant or benign from biopsy details.
- Type: Binary Classification
  Dimensions: 699 instances, 11 attributes
- Inputs: Integer (Nominal)

- Output: Categorical, 2 class labels

Never miss a tutorial:

- UCI Machine Learning Repository: Description
- Published accuracy results: Summary

```
# Wisconsin Breast Cancer Database
data(BreastCancer)
dim(BreastCancer)
levels(BreastCancer$Class)
head(BreastCancer)
```

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You will see:

```
        Id Cl.thickness Cell.size Cell.shape Marg.adhesion Epith.c.size Bare.nuclei Bl.cromat
1  1000025            5         1          1             1           2           1
2  1002945            5         4          4
3  1015425            3         1          1
4  1016277            6         8          8
5  1017023            4         1          1
6  1017122            8        10         10
```

How to Build an Ensemble Of Machine Learning Algorithms in R

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Glass Identification Database

- Description: Predict the glass type from chemical properties.
- Type
- Dimensions: 214 instances, 10 attributes
- Inputs: Numeric
- Output: Categorical, 7 class labels
- UCI Machine Learning Repository: Description
- Published accuracy results: Summary

```
# Glass Identification Database
data(Glass)
dim(Glass)
levels(Glass$Type)
head(Glass)
```

You will see:

```
        RI    Na   Mg   Al    Si    K   Ca Ba   Fe Type
1  1 1.52101 13.64 4.49 1.10 71.78 0.06 8.75  0 0.00    1
2  2 1.51761 13.89 3.60 1.36 72.73 0.48 7.83  0 0.00    1
3  3 1.51618 13.53 3.55 1.54 72.99 0.39 7.78
4  4 1.51766 13.21 3.69 1.29 72.61 0.57 8.22
```

```
6  5 1.51742 13.27 3.62 1.24 73.08 0.55 8.07  0 0.00    1
7  6 1.51596 12.79 3.61 1.62 72.97 0.64 8.07  0 0.26    1
```

ver miss a tutorial:

ns Hopki Uni sity nosphere database

- Description: Predict high-energy structures in the atmosphere from antenna data.
- Type: Classification
- Dimensions: 351 instances, 35 attributes
- puts: Numeric
- tput: Categorical, 2 class labels
- UCI Machine Learning Repository: Description
- Published accuracy results: Summary

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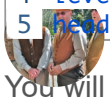

How to Build an Ensemble Of Machine Learning Algorithms in R

You will see:

```
1  # Johns Hopkins University Ionosphere datab
2  data(Ionosphere)
3  dim(Ionosphere)
4  levels(Ionosphere$Class)
5  head(Ionosphere)
```

```
1     V1 V2      V3      V4      V5      V6
2  1  1  0 0.99539 -0.05889  0.85243  0.02306
3  2  1  0 1.00000 -0.18829  0.93035 -0.36156
4  3  1  0 1.00000 -0.03365  1.00000  0.00485
5  4  1  0 1.00000 -0.45161  1.00000  1.00000
6  5  1  0 1.00000 -0.02401  0.94140  0.06531
7  6  1  0 0.02337 -0.00592 -0.09924 -0.11949
8        V20      V21      V22      V23
9  1 -0.32192  0.56971 -0.29674  0.36946 -0.4
10 2 -1.00000 -0.13151 -0.45300 -0.18056 -0.3
11 3 -0.08540  0.70887 -0.27502  0.43385 -0.1
12 4 -0.54467 -0.69975  1.00000  0.00000  0.0
13 5 -0.17813  0.05982 -0.35575  0.02309 -0.52879  0.03286 -0.65158  0.13290 -0.53206  0.02431
14 6 -0.05414  0.01838  0.03669  0.01519  0.00888  0.03513 -0.01535 -0.03240  0.09223 -0.07859
```


Pima Indians Diabetes Database

- Description: Predict the onset of diabetes in female Pima Indians from medical record data
- Type: Binary Classification

- Dimensions: 768 instances, 9 attributes
- Inputs: Numeric
- Output: Categorical, 2 class labels
- Dataset Details: Description
- Published accuracy results: Summary

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```
# Pima Indians Diabetes Database
data(PimaIndiansDiabetes)
View(PimaIndiansDiabetes)
levels(PimaIndiansDiabetes$diabetes)
head(PimaIndiansDiabetes)
```

You will see:

```
  pregnant glucose pressure triceps insulin
1        6     148       72      35       0
2        1      85       66      29       0
3        8     183       64       0       0
4        1      89       66      23      94
5        0     137       40      35     168
6        5     116       74       0       0
```

Sonar, Mines vs. Rocks

Description: Predict metal or rock returns from

- Type: Binary Classification
- Dimensions: 208 instances, 61 attributes
- Inputs: Numeric
- Output: Categorical, 2 class labels
- UCI Machine Learning Repository: Description
- Published accuracy results: Summary

```
# Sonar, Mines vs. Rocks
data(Sonar)
dim(Sonar)
levels(Sonar$Class)
head(Sonar)
```

You will s

```
      V1     V2     V3     V4     V5     V6     V7     V8     V9    V10    V11    V12    V1
1 0.0200 0.0371 0.0428 0.0207 0.0954 0.0986 0.1539 0.1601 0.3109 0.2111 0.1609 0.1582 0.223
2 0.0453 0.0523 0.0843 0.0689 0.1183 0.2583 0.2156 0.3481 0.3337 0.2872 0.4918 0.6552 0.691
3 0.0262 0.0582 0.1099 0.1083 0.0974 0.2280 0.2431 0.3771 0.5598 0.6194 0.6333 0.7060 0.554
4 0.0100 0.0171 0.0623 0.0205 0.0205 0.0368 0.1098 0.1276 0.0598 0.1264 0.0881 0.1992 0.018
5 0.0762 0.0666 0.0481 0.0394 0.0590 0.0649 0.1209 0.2467 0.3564 0.4459 0.4152 0.3952 0.425
6 0.0286 0.0453 0.0277 0.0174 0.0384 0.0990 0.1201 0.1833 0.2105 0.3039 0.2988 0.4250 0.634
     V23    V24    V25    V26    V27    V28    V29    V30    V31    V32    V33    V34    V3
1 0.4328 0.5550 0.6711 0.6415 0.7104 0.8080 0.6791 0.3857 0.1307 0.2604 0.5121 0.7547 0.853
2 0.3957 0.3914 0.3250 0.3200 0.3271 0.2767 0.4423 0.2028 0.3788 0.2947 0.1984 0.2341 0.130
3 0.4293 0.3648 0.5331 0.2413 0.5070 0.8533 0.6036 0.8514 0.8512 0.5045 0.1862 0.2709 0.423
4 0.5556 0.4846 0.3140 0.5334 0.5256 0.2520 0.2090 0.3559 0.6260 0.7340 0.6120 0.3497 0.395
5 0.5730 0.5399 0.3161 0.2285 0.6995 1.0000 0.7262 0.4724 0.5103 0.5459 0.2881 0.0981 0.195
6 0.5890 0.2872 0.2043 0.5782 0.5389 0.3750 0.3411 0.5067 0.5580 0.4778 0.3299 0.2198 0.140
     V45    V46    V47    V48    V49    V50    V51    V52    V53    V54    V55    V56    V5
1 0.2641 0.1386 0.1051 0.1343 0.0383 0.0324 0.0232 0.0027 0.0065 0.0159 0.0072 0.0167 0.018
2 0.0621 0.0203 0.0530 0.0742 0.0409 0.0061 0.0125 0.0084 0.0089 0.0048 0.0094 0.0191 0.014
3 0.2111 0.0176 0.1348 0.0744 0.0130 0.0106 0.0033 0.0232 0.0166 0.0095 0.0180 0.0244 0.031
4 0.4295 0.3654 0.2655 0.1576 0.0681 0.0294 0.0241 0.0121 0.0036 0.0150 0.0085 0.0073 0.005
5 0.0692 0.0528 0.0357 0.0085 0.0230 0.004                                             007
6 0.1192 0.1089 0.0623 0.0494 0.0264 0.008                                             005
```

Never miss a tutorial:

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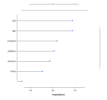

Feature Selection with the Caret R Package

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Soybean Database

- Description: Predict problems with soybean cr
- Type: Multi-Class Classification
- Dimensions: 683 instances, 26 attributes
- Inputs: Integer (Nominal)
- Output: Categorical, the class to predict
- UCI Machine Learning Repository: Description


```
# Soybean Database
data(Soybean)
dim(Soybean)
levels(Soybean$Class)
head(Soybean)
```

Loving the Tutorials?

You will see:

The Machine Learning with R EBook is where you'll find the *Really Good* stuff.

```
  Class date plant.stand precip temp hail crop.hist area.dam sever seed.tmt
1 1 diaporthe-stem-canker    6           0      2    1    0         1        1     1        0
2 2 diaporthe-stem-canker    4           0      2    1    0         2        0     2        1
3 3 diaporthe-stem-canker    3           0      2    1    0         1        0     2        1
4 4 diaporthe-stem-canker    3           0      2    1    0         1        0     2        0
5 5 diaporthe-stem-canker    6           0      2    1    0         2        0     1        0
6 6 diaporthe-stem-canker    5           0      2    1    0         3        0     1        0
  leaf.malf leaf.mild stem lodging stem.cankers canker.lesion fruiting.bodies ext.decay myc
1         0         0    1       1            3             1               1         1
2         0         0    1       0            3             1               1         1
3         0         0    1       0            3             0               1         1
4         0         0    1       0            3             0               1         1
5         0         0    1       0            3             1               1         1
6         0         0    1       0            3             0               1         1
  seed.discolor seed.size shriveling roots
1             0         0          0     0
2             0         0          0     0
3             0         0          0     0
4             0         0          0     0
5             0         0          0     0
6             0         0          0     0
```

Never miss a tutorial:

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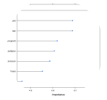
Your First Machine Learning Project in R Step-By-Step



Feature Selection with the Caret R Package

Library: AppliedPredictiveModeling

How to Build an Ensemble Of Machine Learning Algorithms in R

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How To Estimate Model Accuracy in R Using The Caret Package

Abalone Dataset
Photo by MAURO CATEB, some rights reserved.

Many books that use R also include their own R library that provides all of the code and datasets used in the book.

The excellent book Applied Predictive Modeling has its own library called *AppliedPredictiveModeling*.

If not installed, you can install this library as follows:

Start Machine Learning

```
install.packages("AppliedPredictiveModeling")
```

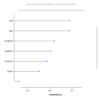
You can load the library as follows:

```
# load the library
library(AppliedPredictiveModeling)
```

To see a list of the datasets available in this library, you can type:

```
# list the contents of the library
library(help = "AppliedPredictiveModeling")
```

One highlight datasets from this library that you could use is:



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Abalone Data

- Description: Predict abalone age from abalone measurement data.
- Type: Regression or Classification
- Dimensions: 4177 instances, 9 attributes
- Input: Numerical and categorical
- Outp
- UCI Machine Learning Repository: Description

```
# Abalone Data
data(abalone)
dim(abalone)
head(abalone)
```

You will see:

```
  Type LongestShell Diameter Height WholeWeight ShuckedWeight VisceraWeight ShellWeight Ring
1    M        0.455    0.365  0.095      0.5140        0.2245        0.1010       0.150   15
2    M        0.350    0.265  0.090      0.2255        0.0995        0.0485       0.070    7
3    F        0.530    0.420  0.135      0.6770        0.2565        0.1415       0.210    9
4    M        0.440    0.365  0.125      0.5160        0.2155        0.1140       0.155   10
5    I        0.330    0.255  0.080      0.2050        0.0895        0.0395       0.055    7
6    I        0.425    0.300  0.095      0.3515        0.1410        0.0775       0.120    8
```

Summary

In this post you discovered that you do not need to collect or load your own data in order to practice machine learning in R.

You learned about 3 different libraries that provide sample machine learning datasets that you can use:

- *datasets* library
- *mlbench* library
- *caret* and *AppliedPredictiveModeling* library

You also discovered 10 specific standard machine learning datasets that you can use to practice classification and regression machine learning techniques.

- flowers datasets (multi-class classification)
- Longley's Economic Regression Data (regress
- Boston Housing Data (regression)
- sconsin Breast Cancer Database (binary cl
- lass Identification Database (multi-class clas
- Johns Hopkins University Ionosphere databas
- ima Indians Diabetes Database (binary class
- ar, Mines vs. Rocks (binary classification)
- Soybean Database (multi-class classification)
- Abalone Data (regression or classification)

Next Step

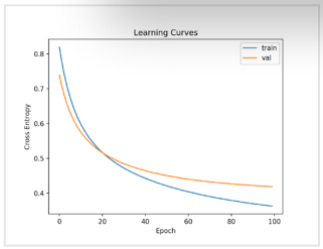
Did you try out these recipes?

1. Start your R interactive environment.
2. Type cipes above and try them out.
3. Use the built-in help in R to learn more about the functions used.

Do you have a question. Ask it in the comments and I will do my best to answer it.

Never miss a tutorial:

Picked for you:



TensorFlow 2 Tutorial: Get Started in Deep Learning…

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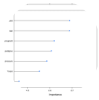

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How to Use a Machin

The Machine Le

How To Improve Deep Learning Performance

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>> SEE WHAT'S INSIDE

About Jason Brownlee

Jason Brownlee, PhD is a machine learning specialist who teaches developers how to get results with modern machine learning methods via hands-on tutorials.

View all posts by Jason Brownlee →

‹ How To Load Your Machine Learning Data Into R

Spot Check Machine Learning Algorithms in R (algorithms to try on your next project) ›

21 Responses to *Machine Learning Datasets in R (10 datasets you can use right now)*

Rotimi February 16, 2016 at 6:11 am #

Tha gre ost lways

REPLY

Rotimi February 16, 2016 at 6:11 am #

Great post! Thank you sir

REPLY

Asia December 2, 2016 at 12:35 pm #

Thanks! I'm looking for regression dataset
e you wrote that the set is for regression and ir
leading.

Jason Brownlee December 3, 2016 at 8:

Thanks Asia. I have fixed that up.

V Malsoru May 13, 2017 at 7:06 am #

I Install R and practiced some algorithms such as Apriori using "arules" packages, but how to install "mlbench" package? Tutorial has the following datasets

"Boston Housing Data (regression)
Wisconsin Breast Cancer Database (binary classification)
Glass Identification Database (multi-class classification)
Johns ere database (binary classification)
Pima Indians Diabetes Database (binary classification)
Sonar, Mines vs. Rocks (binary classification)
Soybean Database (multi-class classification)
Abalone Data (regression or classification)". Please suggest.

Jason Brownlee May 14, 2017 at 7:21 am #

REPLY

You can install the mlbench package as follows:

```
1 install.packages(mlbench)
```

Malsoru May 13, 2017 at 7:49 am #

To run cancer datasets, which packages are needed, could you please suggest.

Never miss a tutorial:

REPLY

Jason Brownlee May 14, 2017 at 7:21 am #

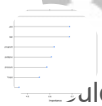
Picked for you:

The mlbench package.

Your First Machine Learning Project in R Step-By-Step

REPLY

Malsoru June 14, 2017 at 5:52 pm #



Feature Selection with the Caret R Package

Pima Indians Diabetes Database (binary classification)

uld You Please suggest one more “Diabetes” da

two more or less than Pima Indians Diabetes Datal

betes Database (binary classification). But i nee

How to Build an Ensemble Of Machine Learning Algorithms in R

June Machine Learning Algorithms in R at 8:44 a

Jason Brownlee

(random forest case study)

Perhaps you can search kaggle or the

How To Estimate Model Accuracy in R Using The Caret Package

Nate George January 27, 2018 at 2:31 pm #

This has got to be the only post of yours w

seem to be random.

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Jason Brownlee January 28, 2018 at 8:21 am #

REPLY

wh you'll find the ***Really Good*** stuff.

Thanks Nate

>> SEE WHAT'S INSIDE

Nate George March 9, 2018 at 9:16 am #

REPLY

Ha! I just thought it was funny.

Nate George January 27, 2018 at 2:33 pm #

REPLY

Also, it’s install.packages(), not install.library()

Jason Brownlee January 28, 2018 at 8:2

Thanks, fixed.

Never miss a tutorial:

GEORGE MASON UNIVERSITY September 18, 2018 at 6:35 am #

REPLY

May I know how to apply central limit theorm to large multivariate dataset

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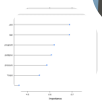
Jason Brownlee September 18, 2018 at 2:14 pm #

REPLY



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What do you mean exactly?

How to Build an Ensemble Of Machine Learning Algorithms in R

Rakesh Patel October 8, 2018 at 4:42 am #

Sir i wanna work with age data-set to find

Tune Machine Learning Algorithms in R (random forest case study)

am unable to find the csv file of age data-set..

will you provide ma a link so that i can work in m

How To Estimate Model Accuracy in R Using The Caret Package

Jason Brownlee October 8, 2018 at 9:28

This is a common question that I answ

https://machinelearningmastery.com/faq/single-faq/where-can-i-get-a-dataset-on-___

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Machine learning July 10, 2021 at 8:23 pm #

REPLY

ere you'll find the ***Really Good*** stuff.

Machine learning is the revolution in tech industry.

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Jason Brownlee July 11, 2021 at 5:38 am #

REPLY

Sure is!

Leave a Reply

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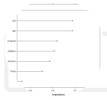

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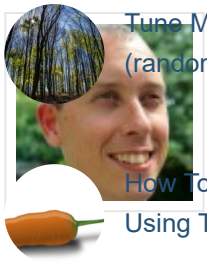

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Name (required)

Email (will not be published)

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I'm *Jason Brownlee* PhD and I **help developers** get results with

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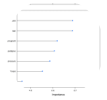
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