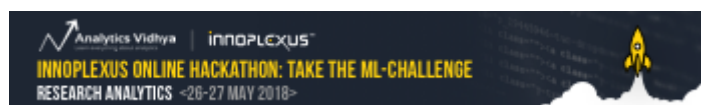


f (<https://www.facebook.com/AnalyticsVidhya>)

t (<https://twitter.com/analyticsvidhya>)

g+ (<https://plus.google.com/+Analyticsvidhya/posts>)

in (<https://www.linkedin.com/groups/Analytics-Vidhya-Learn-everything-about-5057165>)



(https://datahack.analyticsvidhya.com/contest/innoplexus-hiring-hackathon/?utm_source=AVhometop)

Home (<https://www.analyticsvidhya.com/>) > Business Analytics (<https://www.analyticsvidhya.com/blog/category/business-analytic...>)

Cheatsheet – Python & R codes for common Machine Learning Algorithms

BUSINESS ANALYTICS (<https://www.analyticsvidhya.com/blog/category/business-analytics/>) INFOGRAPHICS

(<https://www.analyticsvidhya.com/blog/category/infographics/>) PYTHON

(<https://www.analyticsvidhya.com/blog/category/python-2/>) R (<https://www.analyticsvidhya.com/blog/category/r/>)

SHARE **f** (<http://www.facebook.com/sharer.php?u=https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/&t=Cheatsheet%20-%20Python%20&%20R%20codes%20for%20common%20Machine%20Learning%20Algorithms>) **t** (<https://twitter.com/home?status=Cheatsheet%20-%20Python%20&%20R%20codes%20for%20common%20Machine%20Learning%20Algorithms+https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/>) **g+** (<https://plus.google.com/share?url=https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/>) **p** (<http://pinterest.com/pin/create/button/?url=https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/&media=https://www.analyticsvidhya.com/wp-content/uploads/2015/09/featured.jpg&description=Cheatsheet%20-%20Python%20&%20R%20codes%20for%20common%20Machine%20Learning%20Algorithms>)

Introduction

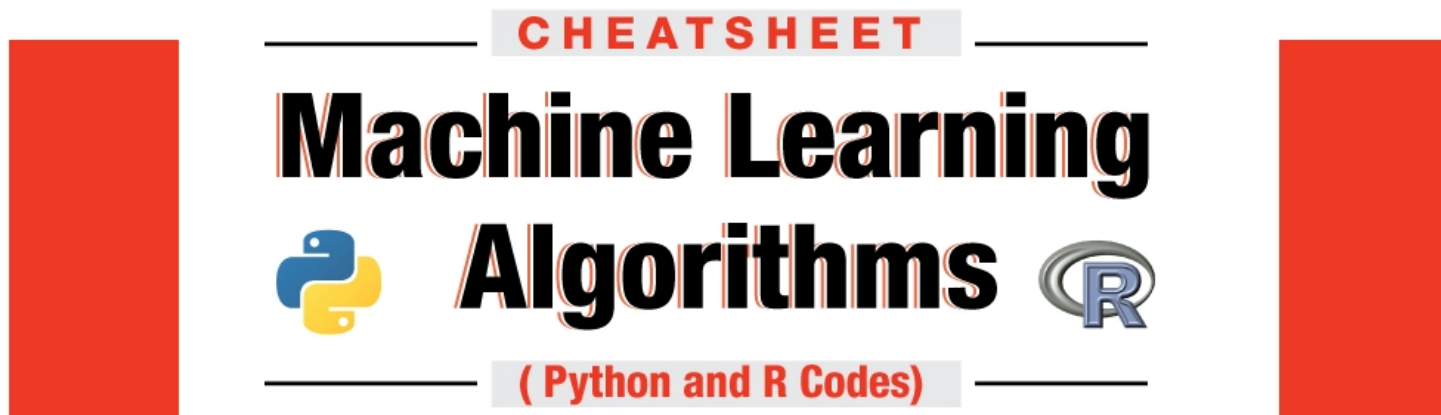
In his famous book – Think and Grow Rich, Napoleon Hill narrates story of Darby, who after digging for a gold vein for a few years walks away from it when he was three feet away from it!

Now, I don't know whether the story is true or false. But, I surely know of a few Data Darby around me. These people understand the purpose of machine learning, its execution and use just a set 2 – 3 algorithms on whatever problem they are working on. They don't update themselves with better algorithms or techniques, because they are too tough or they are time consuming.

Like Darby, they are surely missing from a lot of action after reaching this close! In the end, they give up on machine learning by saying it is very computation heavy or it is very difficult or I can't improve my models above a threshold – what's the point? Have you heard them?

Today's cheat sheet aims to change a few Data Darby's to machine learning advocates. Here's a collection of 10 most commonly used machine learning algorithms with their codes in Python and R. Considering the rising usage of machine learning in building models, this cheat sheet is good to act as a code guide to help you bring these machine learning algorithms to use. Good Luck!

For the super lazy Data Darbies, we will make your life even easier. You can download the PDF Version (<http://discuss.analyticsvidhya.com/t/download-full-cheatsheet-on-machine-learning-algorithms/4063/1>) of the cheat sheet here and copy paste the codes from it directly.



Types

Supervised Learning

- Decision Tree
- Random Forest
- kNN
- Logistic Regression

Unsupervised Learning

- Apriori algorithm
- k-means
- Hierarchical Clustering

Reinforcement Learning

- Markov Decision Process
- Q Learning

Python

R

Code**Code****Linear
Regression**

```
#Import Library
#Import other necessary libraries like pandas,
#numpy...
from sklearn import linear_model
#Load Train and Test datasets
#Identify feature and response variable(s) and
#values must be numeric and numpy arrays
x_train=input_variables_values_training_datasets
y_train=target_variables_values_training_datasets
x_test=input_variables_values_test_datasets
#Create linear regression object
linear = linear_model.LinearRegression()
#Train the model using the training sets and
#check score
linear.fit(x_train, y_train)
linear.score(x_train, y_train)
#Equation coefficient and Intercept
print('Coefficient: \n', linear.coef_)
print('Intercept: \n', linear.intercept_)
#Predict Output
predicted= linear.predict(x_test)
```

```
#Load Train and Test datasets
#Identify feature and response variable(s) and
#values must be numeric and numpy arrays
x_train <- input_variables_values_training_datasets
y_train <- target_variables_values_training_datasets
x_test <- input_variables_values_test_datasets
x <- cbind(x_train,y_train)
#Train the model using the training sets and
#check score
linear <- lm(y_train ~ ., data = x)
summary(linear)
#Predict Output
predicted= predict(linear,x_test)
```

**Logistic
Regression**

```
#Import Library
from sklearn.linear_model import LogisticRegression
#Assumed you have, X (predictor) and Y (target)
#for training data set and x_test(predictor)
#of test_dataset
#Create logistic regression object
model = LogisticRegression()
#Train the model using the training sets
#and check score
model.fit(X, y)
model.score(X, y)
#Equation coefficient and Intercept
print('Coefficient: \n', model.coef_)
print('Intercept: \n', model.intercept_)
#Predict Output
predicted= model.predict(x_test)
```

```
x <- cbind(x_train,y_train)
#Train the model using the training sets and check
#score
logistic <- glm(y_train ~ ., data = x,family='binomial')
summary(logistic)
#Predict Output
predicted= predict(logistic,x_test)
```

#Import Library

#Import Library

Decision Tree

```
#Import other necessary libraries like pandas, numpy...
from sklearn import tree
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of
#test_dataset
#Create tree object
model = tree.DecisionTreeClassifier(criterion='gini')
#for classification, here you can change the
#algorithm as gini or entropy (information gain) by
#default it is gini
#model = tree.DecisionTreeRegressor() for
#regression
#Train the model using the training sets and check
#score
model.fit(X, y)
model.score(X, y)
#Predict Output
predicted= model.predict(x_test)
```

```
library(rpart)
x <- cbind(x_train,y_train)
#grow tree
fit <- rpart(y_train ~ ., data = x,method="class")
summary(fit)
#Predict Output
predicted= predict(fit,x_test)
```

SVM (Support Vector Machine)

```
#Import Library
from sklearn import svm
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of test_dataset
#Create SVM classification object
model = svm.svc()
#there are various options associated
with it, this is simple for classification.
#Train the model using the training sets and check
#score
model.fit(X, y)
model.score(X, y)
#Predict Output
predicted= model.predict(x_test)
```

```
#Import Library
library(e1071)
x <- cbind(x_train,y_train)
#Fitting model
fit <-svm(y_train ~ ., data = x)
summary(fit)
#Predict Output
predicted= predict(fit,x_test)
```

Naive Bayes

```
#Import Library
from sklearn.naive_bayes import GaussianNB
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of test_dataset
#Create SVM classification object model = GaussianNB()
#there is other distribution for multinomial classes
like Bernoulli Naive Bayes
#Train the model using the training sets and check
#score
model.fit(X, y)
#Predict Output
```

```
#Import Library
library(e1071)
x <- cbind(x_train,y_train)
#Fitting model
fit <-naiveBayes(y_train ~ ., data = x)
summary(fit)
#Predict Output
predicted= predict(fit,x_test)
```

```
#Predict Output
predicted= model.predict(x_test)
```

kNN (k- Nearest Neighbors)

```
#Import Library
from sklearn.neighbors import KNeighborsClassifier
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of test_dataset
#Create KNeighbors classifier object model
KNeighborsClassifier(n_neighbors=6)
#default value for n_neighbors is 5
#Train the model using the training sets and check score
model.fit(X, y)
#Predict Output
predicted= model.predict(x_test)
```

```
#Import Library
library(knn)
x <- cbind(x_train,y_train)
#Fitting model
fit <- knn(y_train ~ ., data = x,k=5)
summary(fit)
#Predict Output
predicted= predict(fit,x_test)
```

k-Means

```
#Import Library
from sklearn.cluster import KMeans
#Assumed you have, X (attributes) for training data set
#and x_test(attributes) of test_dataset
#Create KNeighbors classifier object model
k_means = KMeans(n_clusters=3, random_state=0)
#Train the model using the training sets and check score
model.fit(X)
#Predict Output
predicted= model.predict(x_test)
```

```
#Import Library
library(cluster)
fit <- kmeans(X, 3)
#5 cluster solution
```

Random Forest

```
#Import Library
from sklearn.ensemble import RandomForestClassifier
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of test_dataset
#Create Random Forest object
model= RandomForestClassifier()
#Train the model using the training sets and check score
model.fit(X, y)
#Predict Output
predicted= model.predict(x_test)
```

```
#Import Library
library(randomForest)
x <- cbind(x_train,y_train)
#Fitting model
fit <- randomForest(Species ~ ., x,ntree=500)
summary(fit)
#Predict Output
predicted= predict(fit,x_test)
```

Algorithms

```
#Import Library
from sklearn import decomposition
#Assumed you have training and test data set as train and
```

```
#Import Library
library(stats)
pca <- princomp(train, cor = TRUE)
```


Dimensionality Reduction

```
#test
#Create PCA object pca= decomposition.PCA(n_components=k)
#default value of k =min(n_sample, n_features)
#For Factor analysis
#fa= decomposition.FactorAnalysis()
#Reduced the dimension of training dataset using PCA
train_reduced = pca.fit_transform(train)
#Reduced the dimension of test dataset
test_reduced = pca.transform(test)
```

```
train_reduced <- predict(pca,train)
test_reduced <- predict(pca,test)
```

Gradient Boosting & AdaBoost

```
#Import Library
from sklearn.ensemble import GradientBoostingClassifier
#Assumed you have, X (predictor) and Y (target) for
#training data set and x_test(predictor) of test_dataset
#Create Gradient Boosting Classifier object
model= GradientBoostingClassifier(n_estimators=100, \
    learning_rate=1.0, max_depth=1, random_state=0)
#Train the model using the training sets and check score
model.fit(X, y)
#Predict Output
predicted= model.predict(x_test)
```

```
#Import Library
library(caret)
x <- cbind(x_train,y_train)
#Fitting model
fitControl <- trainControl( method = "repeatedcv",
+ number = 4, repeats = 4)
fit <- train(y ~ ., data = x, method = "gbm",
+ trControl = fitControl,verbose = FALSE)
predicted= predict(fit,x_test,type= "prob")[,2]
```

To view complete guide on Machine Learning Algorithms, visit here :

<http://bit.ly/1DOUS8N>

www.analyticsvidhya.com



<http://discuss.analyticsvidhya.com/t/download-full-cheatsheet-on-machine-learning-algorithms/4063/1>

Keep this cheat sheet handy when you work on data sets. download the complete cheat sheet here: PDF Version
<http://discuss.analyticsvidhya.com/t/download-full-cheatsheet-on-machine-learning-algorithms/4063/1>

If you like what you just read & want to continue your analytics learning, subscribe to our emails (<http://feedburner.google.com/fb/a/mailverify?uri=analyticsvidhya>), follow us on twitter (<http://twitter.com/analyticsvidhya>) or join our Facebook Group (<https://www.facebook.com/groups/analyticsvidhya/>)

You can also read this article on Analytics Vidhya's Android APP



(https://play.google.com/store/apps/details?id=com.analyticsvidhya.android&utm_source=blog_article&utm_campaign=blog&pcampaignid=MKT-Other-global-all-co-prtnr-py-PartBadge-Mar2515-1)

Share this:

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=linkedin&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=facebook&nb=1>)

2K+

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=google-plus-1&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=twitter&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=pocket&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/?share=reddit&nb=1>)

RELATED



(<https://www.analyticsvidhya.com/blog/2017/01/the-most-comprehensive-data-science-learning-plan-for-2017/>)

The most comprehensive Data Science learning plan for 2017

(<https://www.analyticsvidhya.com/blog/2017/01/the-most-comprehensive-data-science-learning-plan-for-2017/>)

January 16, 2017

In "Business Analytics"

(<https://www.analyticsvidhya.com/blog/2017/02/top-28-cheat-sheets-for-machine-learning-data-science-probability-sql-big-data/>)

Top 28 Cheat Sheets for Machine Learning, Data Science, Probability, SQL & Big Data

(<https://www.analyticsvidhya.com/blog/2017/02/top-28-cheat-sheets-for->

(<https://www.analyticsvidhya.com/blog/2015/12/year-review-analytics-vidhya-from-2015/>)

Year in Review: Best of Analytics Vidhya from 2015

(<https://www.analyticsvidhya.com/blog/2015/12/year-review-analytics-vidhya-from-2015/>)

December 28, 2015

In "Business Analytics"

machine-learning-data-science- probability-sql-big-data/)

February 17, 2017

In "Big data"

TAGS: DECISION TREE ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/DECISION-TREE/](https://www.analyticsvidhya.com/blog/tag/decision-tree/)), INFOGRAPHIC ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/INFOGRAPHIC/](https://www.analyticsvidhya.com/blog/tag/infographic/)), K-MEANS ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/K-MEANS/](https://www.analyticsvidhya.com/blog/tag/k-means/)), LINEAR-REGRESSION ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/LINEAR-REGRESSION/](https://www.analyticsvidhya.com/blog/tag/linear-regression/)), LOGISTIC REGRESSION ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/LOGISTIC-REGRESSION/](https://www.analyticsvidhya.com/blog/tag/logistic-regression/)), MACHINE LEARNING ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/MACHINE-LEARNING/](https://www.analyticsvidhya.com/blog/tag/machine-learning/)), NAIVE BAYES ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/NAIVE-BAYES/](https://www.analyticsvidhya.com/blog/tag/naive-bayes/)), PYTHON ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/PYTHON/](https://www.analyticsvidhya.com/blog/tag/python/)), R ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/R/](https://www.analyticsvidhya.com/blog/tag/r/)), RANDOM FOREST ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/RANDOM-FOREST/](https://www.analyticsvidhya.com/blog/tag/random-forest/)), REINFORCEMENT LEARNING ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/REINFORCEMENT-LEARNING/](https://www.analyticsvidhya.com/blog/tag/reinforcement-learning/)), SUPERVISED LEARNING ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/SUPERVISED-LEARNING/](https://www.analyticsvidhya.com/blog/tag/supervised-learning/)), UNSUPERVISED LEARNING ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/UNSUPERVISED-LEARNING/](https://www.analyticsvidhya.com/blog/tag/unsupervised-learning/))

Next Article

24 Ultimate Data Scientists To Follow in the World Today

(<https://www.analyticsvidhya.com/blog/2015/09/ultimate-data-scientists-world-today/>)

Previous Article

Learn Gradient Boosting Algorithm for better predictions (with codes in R)

(<https://www.analyticsvidhya.com/blog/2015/09/complete-guide-boosting-methods/>)



(<https://www.analyticsvidhya.com/blog/author/avcontentteam/>)

Author

Analytics Vidhya Content Team

(<https://www.analyticsvidhya.com/blog/author/avcontentteam/>)

Analytics Vidhya Content team

This article is quite old now and you might not get a prompt response from the author. We would request you to post this comment on Analytics Vidhya **Discussion portal** (<https://discuss.analyticsvidhya.com/>) to get your queries resolved.

34 COMMENTS



venugopal says:

REPLY



SEPTEMBER 15, 2015 AT 4:37 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95067](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95067))

Good Compilation...



Indu says:

REPLY

SEPTEMBER 15, 2015 AT 2:11 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95104](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95104))

Thanks for sharing this in both R and Python. Very helpful. It would be nice to have datasets to accompany this code for those who are just starting out....



Huaixiu Zheng (https://www.facebook.com/app_scoped_user_id/10203347963538285/) says:

REPLY

SEPTEMBER 17, 2015 AT 4:27 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95257](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95257))

thanks for sharing



Richard Boire (<http://www.boirefillergroup.com>) says:

REPLY

SEPTEMBER 17, 2015 AT 7:55 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95265](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95265))

This is good stuff. My only commentary is the following: I could not find anything in the code that deals with validation. This is a must in all models and their evaluation(i.e. how well the model performs in a holdout group). Evaluating the model based on its predicted output to observed output in the training data can be misleading because certain techniques have a tendency to overfit(i.e. neural nets) where holdout groups are essential in effectively evaluating model performance .



Kayla says:

REPLY

SEPTEMBER 18, 2015 AT 1:08 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95324](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95324))

Awesome! Thank you!



greg says:

REPLY

SEPTEMBER 21, 2015 AT 2:49 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95609](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95609))

thanks

**andun says:**

REPLY

SEPTEMBER 23, 2015 AT 1:14 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95737](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95737))

For kNN in R, the package knn is no longer available. The function knn can be found in the "class" package, but I don't think it takes the arguments the way you specified. I guess you can also use caret for that.

**Gaurav says:**

REPLY

SEPTEMBER 24, 2015 AT 3:52 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-95886](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-95886))

Thx for sharing.

In R we can implement stepwise regression.whats the equivalent in python.

**Raman says:**

REPLY

OCTOBER 12, 2015 AT 3:42 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-97141](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-97141))

Very thoughtfully compiled and presented. Thanks for posting something very useful!

**Jared says:**

REPLY

NOVEMBER 13, 2015 AT 3:32 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-99578](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-99578))

The download link has been invalid for China's mainland users. I tried to register the website but filed. Can someone please send the PDF file to my email ?

**Analytics Vidhya Content Team says:**

REPLY

NOVEMBER 14, 2015 AT 4:18 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-99601](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-99601))

I've shared this PDF on your email.

**venugopal says:**

REPLY

NOVEMBER 28, 2015 AT 6:51 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-100665](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-100665))

GooD one. Please share PDF file to my mail as well

**Analytics Vidhya Content Team says:**

REPLY

NOVEMBER 30, 2015 AT 6:05 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-100759](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-100759))

Hi Venugopal

Link to download is shared in the post above. You can very well download using the link.

Thanks

**Shikhar Pandey says:**

REPLY

NOVEMBER 29, 2015 AT 10:58 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-100716](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-100716))

Please share the PDF with me

**socialin says:**

REPLY

DECEMBER 28, 2015 AT 1:30 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-102657](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-102657))

"The reCAPTCHA wasn't entered correctly. Go back and try it again. (reCAPTCHA said: incorrect-captcha-sol)"

The above messages prompted when I tried to register to download the pdf,I looked it up,it's about verify something,but I can't find the verify part anywhere.so that means I can't download it.Anyone know what's going on?

**socialin says:**

REPLY

DECEMBER 28, 2015 AT 1:31 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-102659](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-102659))

Can i get it in my email? Thanks!

**Analytics Vidhya Content Team says:**

REPLY

DECEMBER 28, 2015 AT 4:13 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-102666](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-102666))

Please share your email.

**socialin says:**

REPLY

DECEMBER 28, 2015 AT 6:51 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-102673](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-102673))

socialin@163.com (mailto:socialin@163.com),Thanks !

**Guilherme Cadori says:**

REPLY

MARCH 10, 2016 AT 3:59 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-107015](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-107015))

Hey, Manish. Could you please share it with me as well?

email: gccadori@hotmail.com (mailto:gccadori@hotmail.com)

For some reason the link is not available.

Cheers,

**deepa says:**

REPLY

FEBRUARY 1, 2016 AT 7:35 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-105006](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-105006))

thank you

**Manya says:**

REPLY

FEBRUARY 10, 2016 AT 4:31 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-105496](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-105496))

Thank you

**rajanikanth says:**

REPLY

FEBRUARY 11, 2016 AT 9:13 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-105526](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-105526))

pl fix the download link



dieudonne says:

REPLY

FEBRUARY 22, 2016 AT 1:21 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-106028](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-106028))

can i get a copy by my email? thank you .

guangfeizhao@outlook.com (mailto:guangfeizhao@outlook.com)



mobile live porn cam (<http://www.orsh.us/?sexcamporn78976>) says:

REPLY

JUNE 9, 2016 AT 10:10 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-112068](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-112068))

Can I simply just say what a comfort to uncover somebody that actually understands what they are discussing on the net. You certainly understand how to bring an issue to light and make it important.

More people ought to read this and understand this side of your story. I was surprised that you aren't more popular given that you surely possess the gift.



Tikbal says:

REPLY

JUNE 15, 2016 AT 1:36 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-112227](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-112227))

there is a problem with the pdf link



Juan Pablo Garicoïts says:

REPLY

JULY 17, 2016 AT 8:59 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-113578](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-113578))

Nice compilation

**gelou88 says:**

REPLY

AUGUST 23, 2016 AT 9:35 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-115068](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-115068))

just to the point

**stephen says:**

REPLY

AUGUST 26, 2016 AT 5:32 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-115147](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-115147))

Please share it with me thanks.

**Manoj says:**

REPLY

AUGUST 26, 2016 AT 10:31 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-115162](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-115162))

Thanks for sharing. It's great help.

**Vighneshwar Eligeti says:**

REPLY

SEPTEMBER 18, 2016 AT 4:33 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-116183](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-116183))

can i get a copy by my email? thank you .

eligeti.vighneshwar.11ee1041@gmail.com (<mailto:eligeti.vighneshwar.11ee1041@gmail.com>)

**Prateek Tandon says:**

REPLY

OCTOBER 25, 2016 AT 5:28 PM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-117488](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-117488))

Good work. For code snippets though, using gists is more friendly to make updates as per updates to libraries etc.

**Muhammad Fahmi Adli says:**

REPLY

NOVEMBER 7, 2016 AT 1:11 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-118039](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-118039))

Can I get that copy code by email?

Thank you.

My email is fahmi.ad26@gmail.com (mailto:fahmi.ad26@gmail.com).

**Brenda says:**[REPLY](#)

NOVEMBER 10, 2016 AT 2:21 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-118195](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-118195))

please share the pdf to my email

Thank you. God bless.

**Harsh (<http://hashtagqa.com>) says:**[REPLY](#)

JANUARY 4, 2017 AT 10:48 AM ([HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/2015/09/FULL-CHEATSHEET-MACHINE-LEARNING-ALGORITHMS/#COMMENT-120560](https://www.analyticsvidhya.com/blog/2015/09/full-cheatsheet-machine-learning-algorithms/#comment-120560))

Excellent piece of information.

Posting both R and Python code is helpful in choosing which one to use for ML.

Cheers! and Keep up the good work!

LEAVE A REPLY






Your email address will not be published.

Comment

Name (required)

[SUBMIT COMMENT](#)

TOP ANALYTICS VIDHYA USERS

Rank	Name	Points
1	 vopani (https://datahack.analyticsvidhya.com/user/profile/Rohan_Rao)	8714
2	 SRK (https://datahack.analyticsvidhya.com/user/profile/SRK)	8287
3	 aayushmnit (https://datahack.analyticsvidhya.com/user/profile/aayushmnit)	7439
4	 mark12 (https://datahack.analyticsvidhya.com/user/profile/mark12)	6269
5	 sonny (https://datahack.analyticsvidhya.com/user/profile/sonny)	5937

[More Rankings \(http://datahack.analyticsvidhya.com/users\)](http://datahack.analyticsvidhya.com/users)

POPULAR POSTS

- A Complete Tutorial to Learn Data Science with Python from Scratch
(<https://www.analyticsvidhya.com/blog/2016/01/complete-tutorial-learn-data-science-python-scratch-2/>)
- Essentials of Machine Learning Algorithms (with Python and R Codes)
(<https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/>)
- 7 Types of Regression Techniques you should know!
(<https://www.analyticsvidhya.com/blog/2015/08/comprehensive-guide-regression/>)
- Understanding Support Vector Machine algorithm from examples (along with code)
(<https://www.analyticsvidhya.com/blog/2017/09/understaing-support-vector-machine-example-code/>)
- A comprehensive beginner's guide to create a Time Series Forecast (with Codes in Python)
(<https://www.analyticsvidhya.com/blog/2016/02/time-series-forecasting-codes-python/>)
- 6 Easy Steps to Learn Naive Bayes Algorithm (with codes in Python and R)
(<https://www.analyticsvidhya.com/blog/2017/09/naive-bayes-explained/>)
- A Complete Tutorial on Tree Based Modeling from Scratch (in R & Python)
(<https://www.analyticsvidhya.com/blog/2016/04/complete-tutorial-tree-based-modeling-scratch-in-python/>)
- A Complete Tutorial on Time Series Modeling in R
(<https://www.analyticsvidhya.com/blog/2015/12/complete-tutorial-time-series-modeling/>)

RECENT POSTS



(<https://www.analyticsvidhya.com/blog/2018/05/analytics-vidhya-trainings-and-datahack-platform-update/>)

Exciting updates from Analytics Vidhya – Launch of Trainings and DataHack platform update!

(<https://www.analyticsvidhya.com/blog/2018/05/analytics-vidhya-trainings-and-datahack-platform-update/>)

KUNAL JAIN , MAY 22, 2018



(<https://www.analyticsvidhya.com/blog/2018/05/deep-learning-faq/>)

answers)! (<https://www.analyticsvidhya.com/blog/2018/05/deep-learning-faq/>)

ANALYTICS VIDHYA CONTENT TEAM , MAY 21, 2018

12 Frequently Asked Questions on Deep Learning (with their



bengaluru/)

(<https://www.analyticsvidhya.com/blog/2018/05/announcing-datahack-summit-2018-bengaluru/>)

Announcing DataHack Summit 2018 – Bengaluru, 22 – 24 November 2018

(<https://www.analyticsvidhya.com/blog/2018/05/announcing-datahack-summit-2018-bengaluru/>)

KUNAL JAIN , MAY 18, 2018



understand-coding/)

(<https://www.analyticsvidhya.com/blog/2018/05/19-data-science-tools-for-people-dont-understand-coding/>)

19 Data Science and Machine Learning Tools for people who Don't Know Programming

(<https://www.analyticsvidhya.com/blog/2018/05/19-data-science-tools-for-people-dont-understand-coding/>)

AARSHAY JAIN , MAY 16, 2018



([http://www.edvancer.in/certified-data-scientist-with-python-](http://www.edvancer.in/certified-data-scientist-with-python-course?utm_source=AV&utm_medium=AVads&utm_campaign=AVadsnonfc&utm_content=pythonavad)

[course?utm_source=AV&utm_medium=AVads&utm_campaign=AVadsnonfc&utm_content=pythonavad](http://www.edvancer.in/certified-data-scientist-with-python-course?utm_source=AV&utm_medium=AVads&utm_campaign=AVadsnonfc&utm_content=pythonavad))

GET CONNECTED



16,095

FOLLOWERS

(<http://www.twitter.com/analyticsvidhya>)



FOLLOWERS

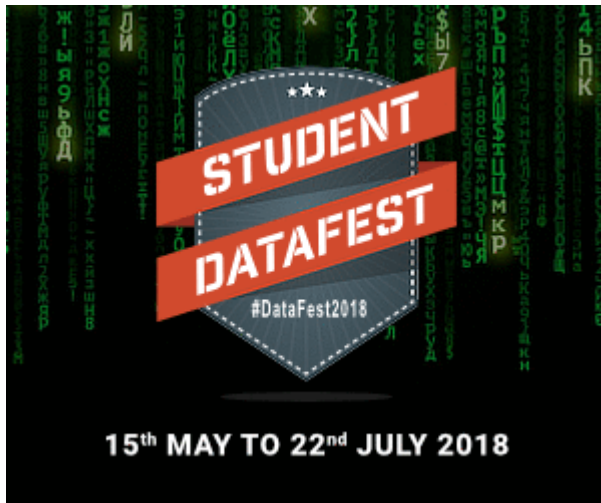
(<http://www.facebook.com/Analyticsvidhya>)

g+ 2,826
FOLLOWERS

(<https://plus.google.com/+Analyticsvidhya>)

Email
SUBSCRIBE

(<http://feedburner.google.com/fb/a/mailverify?uri=analyticsvidhya>)



(<https://analyticsvidhya.com/student-datafest-2018/?>

utm_source=AVblogbottom)

ANALYTICS VIDHYA
Analytics Vidhya

About Us
(<http://www.analyticsvidhya.com/about-me/>)

Our Team
(<https://www.analyticsvidhya.com/about-me/team/>)

Career
(<https://www.analyticsvidhya.com/career-analyticsvidhya/>)

Contact Us
(<https://www.analyticsvidhya.com/contact/>)

Write for us
(<https://www.analyticsvidhya.com/about-me/write/>)

NEW FRONTIERS IN DEEP LEARNING

MEETUP, BENGALURU ON 26 MAY 2018

in-deep-learning/?utm_source=AV_Blogbottom)

DATA SCIENTISTS COMPANIES

Blog (<https://www.analyticsvidhya.com/blog/>)

Post Jobs (<https://www.analyticsvidhya.com/corporate/>)

Hackathon (<https://datahack.analyticsvidhya.com/>)

Trainings (<https://www.analyticsvidhya.com/trainings/>)

Discussions (<https://discuss.analyticsvidhya.com/>)

Hiring (<https://datahack.analyticsvidhya.com/new-frontiers-apply-jobs/>)

Apply Jobs (<https://www.analyticsvidhya.com/job/>)

Leaderboard (<https://datahack.analyticsvidhya.com/users/>)

Realtime (<https://www.analyticsvidhya.com/realtime/>)

JOIN OUR COMMUNITY :

f (<https://www.facebook.com/analyticsvidhya>) 16097

t (<https://twitter.com/analyticsvidhya>)

+ (<https://plus.google.com/+Analyticsvidhya>) 2830

in (<https://www.linkedin.com/company/analyticsvidhya>) 7513

Followers (<https://plus.google.com/+Analyticsvidhya>)

Followers (<https://plus.google.com/+Analyticsvidhya>)

Subscribe to emailer



© Copyright 2013-2018 Analytics Vidhya.

Privacy Policy (<https://www.analyticsvidhya.com/privacy-policy/>)

Terms of Use (<https://www.analyticsvidhya.com/terms/>)

Refund Policy (<https://www.analyticsvidhya.com/refund-policy/>)

Don't have an account? Sign up!