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Cheatsheet: Scikit-Learn & Caret Package for Python & R respectively

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Introduction

For any Python or R practitioner, this article will prove to be a boon. We provide you cheatsheets for the most widely used machine library in Python & R each. Read on to know what's in store for you.

RECOMMENDED READS



A Complete Python Tutorial to Learn Data Science from Scratch

(https://www.analyticsvidhya.com/blog/2016/01/complete-tutorial-learn-data-science-python-scratch-2/?utm_source=cheatsheet-scikit-learn-caret-package-for-python-r-respectively)



Commonly used Machine Learning Algorithms (with Python and R Codes)

(https://www.analyticsvidhya.com/blog/2017/09/common-machine-learning-algorithms/?utm_source=cheatsheet-scikit-learn-caret-package-Bootcamp)

About Scikit-learn

Python has a rich and healthy ecosystem of various libraries for data analysis. But one of them stands out as the best and most effective library. No points for guessing, it is Scikit-Learn, one of the robust library for machine learning in Python.

Scikit-learn was initially developed by David Cournapeau as a Google summer of code project in 2007. In the same year, Matthieu Brucher joined the project. In 2010 Fabian Pedregosa, Gael Varoquaux, Alexandre Gramfort and Vincent Michel of INRIA got involved with the project and made the first public release, February the 1st 2010. Since then, several new contributions have been made to the project.

Scikit-Learn provides a range of supervised & unsupervised algorithms and is built over SciPy. To get a hands-on experience on Scikit-Learn in Python for machine learning, here's a [step_by_step_guide](#) (<https://www.analyticsvidhya.com/blog/2015/01/scikit-learn-python-machine-learning-tool/>).

About Caret

The R platform has proved to be one of the most powerful for statistical computing and applied machine learning. CARET (Classification And Regression Training) is one of the biggest projects in R. Caret package is all you to know for solving any supervised machine learning problem.

Caret package is created and maintained by Max Kuhn from Pfizer. Development started in 2005 and was later made open source and uploaded to CRAN. Here's a [practice_guide](#) (<https://www.analyticsvidhya.com/blog/2016/12/practical-guide-to-implement-machine-learning-with-caret-package-in-r-with-practice-problem/>) for implementing machine learning with Caret package in R.

Here are cheatsheets for Scikit-Learn and Caret package to help to gain prowess in Python & R respectively. To download the PDFs of these cheatsheets, [click here](#) (<https://www.analyticsvidhya.com/infographics/>).

for python r respectively)



7 Regression Techniques you should know!

(https://www.analyticsvidhya.com/blog/2015/08/comprehensive-guide-regression/?utm_source=cheatsheet-scikit-learn-caret-package-for-python-r-respectively)

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(https://courses.analyticsvidhya.com/courses/a-comprehensive-learning-path-to-become-a-data-scientist-in-2019/?utm_source=Recommendation_utm_medium=blog&utm_campaign=Novlist)



Practice & Learn
Loan Prediction

(https://datahack.analyticsvidhya.com/contest/practice-problem-loan-prediction-iii/?utm_source=Recommendation_utm_medium=blog&utm_campaign=Novlist)

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Cheatsheet: Scikit Learn

Scikit-Learn is the most popular and widely used library for machine learning in Python.





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Pre-Processing

Function	Description
----------	-------------

- 1 sklearn.preprocessing.StandardScaler Standardize features by removing the mean and scaling to unit variance
- 2 sklearn.preprocessing.Imputer Imputation transformer for completing missing values.
- 3 sklearn.preprocessing.LabelBinarizer Binarize labels in a one-vs-all fashion
- 4 sklearn.preprocessing.OneHotEncoder Encode categorical integer features using a one-hot a.k.a one-of-K scheme.
- 5 sklearn.preprocessing.PolynomialFeatures Generate polynomial and interaction features.

Regression

Function	Description
----------	-------------

- 1 sklearn.tree.DecisionTreeRegressor A decision tree regressor
- 2 sklearn.svm.SVR Epsilon-Support Vector Regression
- 3 sklearn.linear_model.LinearRegression Ordinary least squares Linear Regression
- 4 sklearn.linear_model.Lasso Linear Model trained with L1 prior as regularizer (a.k.a the Lasso)
- 5 sklearn.linear_model.SGDRegressor Linear model fitted by minimizing a regularized empirical loss with SGD
- 6 sklearn.linear_model.ElasticNet Linear regression with combined L1 and L2 priors as regularizer
- 7 sklearn.ensemble.RandomForestRegressor A random forest regressor
- 8 sklearn.ensemble.GradientBoostingRegressor Gradient Boosting for regression
- 9 sklearn.neural_network.MLPRegressor Multi-layer Perceptron regressor

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Cheatsheet:Caret Package

CARET (Classification And Regression Training) is a library in R which provides a set of functions that attempt to streamline the process for creating predictive models.

1.Data Splitting

Function	Description
1 createDataPartition(y,p=0.8)	createDalt splits a vector 'y' with 80 percent data in one part and 20 percent in other parttaPartition(y,p=0.8)
2 maxDissim(a,b,n=2)	It creates subsamples from 'b' which are at a maximum Dissimilarity from 'a'(a,b,n=2)

2.Data Pre-Processing

Function	Description
1 preprocess(x, method=c("center","scale"))	It is used to perform preprocessing tasks like centering, scaling and imputing missing values in a dataset
2 BoxCoxTrans(y,...)	To remove skewness in a vector by using boxcoxtransformations on it.
3 downSample(x,y,ynname="class")	It is used to randomly sample the data so that every class has the same frequency as the minority class.
4 dummyVars(formula,...)	It creates a full set of dummy variables for categorical variables

3.Feature Selection

Function	Description
1 gafs.default(x,y,...)	It is used to perform supervised feature selection using genetic algorithms
2 nearZeroVar(x...)	It is used to identify predictors that have zero or near zero variance.
3 pickSizeBest(x,metric,maximise)	It is used to perform backward selection
4 rfe(x,...)	It is used to perform a simple backward selection
5 varImp(object,...)	It is used to calculate variable importance for classification and regression models

4.Model Tuning

Function	Description
1 trainControl	It is used for controlling training parameters like resampling, number of folds, iteration etc.
2 oneSE(x,metric,maximise)	This function is used to set tuning paramters of a model.

5.Visualization

Function	Description
1	It is used to draw calibration plot that describe

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calibration(x,data)	show consistent model probabilities are with the observed event rate.
densityplot.rfe(x,data,...)	Lattice functions for plotting resampling results of recursive feature selection
featureplot(x,y,plot...)	A shortcut to produce lattice plots
plotClassProbs	It is used to plot predicted probabilities in classification model .
plotObsVsPred	It is used to plot observed vs predicted results in Classification and Regression Models

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(<https://www.analyticsvidhya.com/wp-content/uploads/2016/12/Caret-Package-Infographi.jpg>)

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Kunal Jain (<https://www.analyticsvidhya.com/blog/author/kunalj/>)

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Kunal is a post graduate from IIT Bombay in Aerospace Engineering. He has spent more than 10 years in field of Data Science. His work experience ranges from mature markets like UK to a developing market like India. During this period he has lead teams of various sizes and has worked on various tools like SAS, SPSS, Qlikview, R, Python and Matlab.

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