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Pandas dataset into an array for modelling in Scikit-Learn

Can we run scikit-learn models on Pandas DataFrames or do we need to convert DataFrames into NumPy arrays?

python pandas scikit-learn

edited Apr 6 '15 at 18:19

Gyan Veda

asked Mar 21 '14 at 14:31

** user40465

migrated from stats.stackexchange.com Mar 21 '14 at 15:11

This question came from our site for people interested in statistics, machine learning, data analysis, data mining, and data visualization.

2 Answers

You can use pandas.DataFrame with sklearn, for example:

import pandas as pd from sklearn.cluster import KMeans

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answered Mar 21 '14 at 14:44



Akavall

31.2k 20 107 150

1 It would be more informative to show how to deal with a DataFrame with named columns, since this is what causes more problems. A combination of this an the other answer would be great. – lincoInfrias Sep 25 '16 at 15:45

it works with named columns too - rakesh Apr 9 '17 at 21:57

Pandas DataFrames are very good at acting like Numpy arrays when they need to. If in doubt, you can always use the values attribute to get a Numpy representation (df.values will give you a Numpy array of the values in DataFrame df.

answered Mar 22 '14 at 22:00



Greg 1.876

1,876 12 17

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