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A horizontal banner for Predix. On the left is the 'PREDIX' logo in white. In the center is a photograph of a man and a woman working together at a computer. On the right, the text 'Code the Industrial Internet' is displayed above a button that says 'Start Your Free Trail'.

```
RDD = sc.parallelize([
    LabeledPoint(1, [1.0, 2.0, 3.0]),
    LabeledPoint(2, [3.0, 4.0, 5.0]),
```

Example of a row

`u'2596,51,3,258,0,510,221,232,148,6279,1,0`



I want to quick create a Labeledpoint RDD in PySpark. I attempt to index the last position as my first data point in the Labeledpoint RDD, and then index the first n-1 positions as a dense vector. However I get the following error. Any guidance is appreciated! Note: if I change [] to () when

```
df = myDataRDD.map(lambda line: line.split(','))
data = [
    LabeledPoint(df[54], df[0:53])
]
TypeError: 'PipelinedRDD' object does not support indexing
-----
TypeError                                Traceback (most recent call last)
<ipython-input-67-fa1b56e8441e> in <module>()
      2 df = myDataRDD.map(lambda line: line.split(','))
      3 data = [
----> 4     LabeledPoint(df[54], df[0:53])
      5 ]

TypeError: 'PipelinedRDD' object does not support indexing
```

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```

labeled_points_rdd = rows_rdd\
    .map(lambda row: row.split(','))\
    # split rows into
sequences
    .map(lambda seq: LabeledPoint(seq[-1],seq[:-2])) # create Labeled
Points from these sequences with Last Item as Label

print labeled_points_rdd.take(2)
# prints [LabeledPoint(5.0, [2596.0,51.0,3.0,258.0,0.0,510.0,221.0,...]),
#       LabeledPoint(5.0,[2596.0,51.0,3.0,258.0,0.0,510.0,221.0,...])

```

Note that the negative indices in python let you access sequences backwards.

With `.take(n)` you then can get the first `n` elements from your RDD.

Hope this helps.

edited Sep 23 '15 at 13:53

answered Sep 23 '15 at 13:34



ValD

66 5



You cannot use indexing, instead you have to use the methods available in the Spark API.

So:

```

data = [ LabeledPoint(myDataRDD.take(RDD.count()), #Last element
    myDataRDD.top(RDD.count()-1)) #All but last ]

```

(Untested, nevertheless, this is the general idea)

answered Sep 21 '15 at 3:27



Dair

8,800 3 28 60

Thanks for the help, I believe this only works row-wise correct? How would I do this column-wise? –

[adlopez15](#) Sep 21 '15 at 4:59
