linear_regression_project

June 27, 2018

1

pdf Latex

1.0.1 :

Section **??**
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```
In [1]: #
        seed = 8 # TODO
```

2 1

2.1 1.1 4*4

```
In [2]: #  python list
        # NumPy


        #
        A = [[1,2,3],
             [2,3,3],
             [1,2,5]]

        B = [[1,2,3,5],
             [2,3,3,5],
             [1,2,5,1]]

        #
        C = [[1],
             [2],
             [3]]
```

```
#TODO   4*4
I = [[1,3,4,5],
     [1,1,5,6],
     [3,42,1,2],
     [5,6,8,1]]
```

2.2   1.2

```
In [3]: # TODO
        def shape(M):
            rows = 0
            columns = 0
            rows = len(M)
            columns = len(M[0])
            return (rows,columns)

In [4]: #  shape
        %run -i -e test.py LinearRegressionTestCase.test_shape

.
----------------------------------------------------------------------
Ran 1 test in 0.028s

OK
```

2.3   1.3

```
In [5]: # TODO
        #
        def matxRound(M, decPts=4):
            for i in range(len(M)):
                for j in range(len(M[0])):
                    M[i][j]  = round(M[i][j],decPts)

In [6]: #  matxRound
        %run -i -e test.py LinearRegressionTestCase.test_matxRound

.
----------------------------------------------------------------------
Ran 1 test in 0.028s

OK
```

2.4   1.4

```
In [7]: # TODO
        def transpose(M):
            return [list(row) for row in zip(*M)]
```