

linear_regression_project

June 27, 2018

1

pdf Latex

1.0.1 :

Section ??

Section ??

Section ??

```
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 = [[1,0,0,0],
      [0,1,0,0],
      [0,0,1,0],
      [0,0,0,1]]

```

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 0.010s

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 0.008s

OK

2.4 1.4

In [7]: *# TODO*

```

def transpose(M):
    return [list(row) for row in zip(*M)]

```