

# linear\_regression\_project

June 26, 2018

## 1

pdf Latex

1.0.1 :

Section ??

Section ??

Section ??

```
In [34]: #  
        seed = 8 # TODO
```

## 2 1

2.1 1.1 4\*4

```
In [35]: # 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 [36]: # TODO
def shape(M):
    rows = 0
    columns = 0
    rows = len(M)
    columns = len(M[0])
    return (rows,columns)

```

```

In [37]: # shape
%run -i -e test.py LinearRegressionTestCase.test_shape

```

.

-----

Ran 1 test in 0.001s

OK

## 2.3 1.3

```

In [38]: # 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 [39]: # matxRound
%run -i -e test.py LinearRegressionTestCase.test_matxRound

```

.

-----

Ran 1 test in 0.006s

OK

## 2.4 1.4

```

In [40]: # TODO
def transpose(M):
    return [list(row) for row in zip(*M)]

```