

an online tool for
vapor's G
Version: 0.1.9

MS mid

Quote 428

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1. Conclusion

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e il le fu i

hapter

i g ui eli e

name enereall des nptions wh a avariable has a hosen name. his is alld for the complete toolbox... as is (-)

Here is all the des nptions of avariable names wh h aent isible to the user. isible names are des nbed in the Users guide:

he avariable identifiers are taken from [\[4\]](#). ne ddition e is purposefull added. If a avariable has

1.1.2 \mathbf{Aa}

\mathbf{Aa} is a cell array and has one entry for each layer.

$\mathbf{In Aa}\{n,n\}$ are the values for the first hidden layer. The size of this matrix depends on the number of neurons used for this layer.

$\mathbf{In Aa}\{2,n\}$

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lg ri

Here are some general thoughts about all latin parts are used in all within.

.1 L n r Marg ar t

It needs also two sensitivity matrices because the two layers. Actually the input is a 2D and a scalar. Now calculation n_1^1 will result in a new vector with 2 elements. n_1^2 will hold only one element and so we have 3 elements in the sensitivity matrix.

Therefore the number of hidden neurons is responsible for the dimension of the sensitivity

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Fu i I e

5.1 Who all no

```
Funci n Fil : i ini
=====

Funci n Fil : l g ig
=====

Funci n Fil : min max
=====

Funci n Fil : n wff
=====
... ini
... n wn rk
... an ig
... rain

Funci n Fil : id
=====

Funci n Fil : r id
=====

Funci n Fil : ur lin
=====

Funci n Fil : a MLPSruc
=====
... ch ckn id ruc
... rini da Fcn
... rini da Param
... riniB
... riniBia C nn ci
... riniBia
... riniI
... riniIniFcn
... riniIniParam
... riniIn uiC nn ci
... riniIn ui igh
```

```

... riniIn u
... riniL
... riniLa rC nn ci
... riniLa r igh
... riniLa r
... riniMLP ad r
... riniN w rkT
... riniNumIn ui la
... riniNumIn ui
... riniNumLa r la
... riniNumLa r
... riniNumOut ui
... riniNumTarg
... riniOut uiC nn ci
... riniOut ui
... riniP rf rwFcn
... riniP rf rwParam
... riniTarg C nn ci
... riniTarg
... riniTrainFcn
... riniTrainParam

Funci n Fil : i
=====
... ch ckn i iuci
l g ig
ur lin
ian ig

Funci n Fil : u i
=====
... iimi daia i

Funci n Fil : ian ig
=====

Funci n Fil : irain
=====
... ch ckn i iuci
... irainlm

Funci n Fil : ira id
=====

Funci n Fil : ... anal r w
=====

Funci n Fil : ... calc ac ian
=====
... dl g ig
... d ur lin
... dian ig
l g ig
ur lin
ian ig

```

```

Funci n Fil : ...calc rf
=====
...
lg ig
ur lin
ian ig

Funci n Fil : ...ch ckn i i ruci
=====

Funci n Fil : ...c c li i
=====

Funci n Fil : ...dl g ig
=====

Funci n Fil : ...d ur lin
=====

Funci n Fil : ...dian ig
=====

Funci n Fil : ...g ix
=====
...ch ckn i i ruci

Funci n Fil : ...ini
=====
...ch ckn i i ruci
n wff

Funci n Fil : ...ma
=====

Funci n Fil : ...
=====

Funci n Fil : ...n wn i rk
=====
...ch ckn i i ruci
i ini
n wff
rain

Funci n Fil : ...iwi dai i
=====
...anal r w
...rand mi c l
...r rang c luwn

Funci n Fil : ...rini da iFcn
=====

Funci n Fil : ...rini da iParam
=====

Funci n Fil : ...riniB
=====

```


Engelhardt = Engelhardt

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e

.1 1 po 1nt

```
% har d
% di ("1 1ing i 1in1")
```



```
% fail("n wff(Pr,[# #], 'an ig', 'ur lin', 'rainl', 'unu d', 'm '),\
```

```

% a    r1(max(wTrain(1,:))==max(matrix(1,:))) "
% a    r1(min(wTrain(1,:))==min(matrix(1,:))) "
% a    r1(max(wTrain(2,:))==max(matrix(2,:))) "

```

```

% di ("i iing anal r w ")
% = [1 0 0 1 0 0 0 1 2 0 1]
% r i i i = anal r w ( )
% a r i(r i i i(1,1)==1) # a r i(r i i i(1,1)==1)
% a r i(r i i i(2,1)==1)
% a r i(r i i i( ,1)==0)
% = [1 0 0 2 1 0 0 0 1 1 1 1]
% r i i i = anal r w ( )
% a r i(r i i i(1,2)==0)
% a r i(r i i i(2,2)==0)
% a r i(r i i i( ,2)==1)
% = [1 0 0 2 1 0 0 0 1 1 1 1]
% r i i i = anal r w ( )
% a r i(r i i i(1, )==2)
% a r i(r i i i(2, )==0)
% a r i(r i i i( , )==0)
% r i i i = anal r w ( )
% a r i(r i i i(1, )==1)
% a r i(r i i i(2, )==0)
% a r i(r i i i( , )==0)

```

.8 __ opy olltopo 1

```

% har d a, r i i i
% di ("i iing c c l i i")
% a = [0 1 2 5 7 8 ]
% r i i i = c c l i i(a, )
% a r i(r i i i(1,1)==2)
% a r i(r i i i(2,1)==7)
% r i i i = c c l i i(a,5)
% a r i(r i i i(1,1)== )
% a r i(r i i i(2,1)== )

```

.9 __ opti i ata t

```

% har d r i i i r i x, m a i r i x
% di ("i iing i i i d a t a i ")
% m a i r i x = [1 2 2 1 2 0 5 2 2 2 2 2 2 \
% 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 \
% 1 2 1 1 1 1 1 1 1 1 1 0 \
% 2 2 2 2 2 1 1 1 1 1]

```

```
% a    r[i](r == matrix(i,i)==5)
% a    r[i](r == matrix(2,i)==0)
% a    r[i](r == matrix( ,i)==i)
% a    r[i](r == matrix( ,i)== )
```

.10 __ran o ll ol

```
% # n i i i l , c ntain rand rm which i u ing
% # m rand m functi n
```

.11 __r ran ol n

```
% har d matrix,anal Matrix,nTrainS i , r turnmatrix
% di ("i ing r rang c lumn ")
% matrix = [0 i 0 0 0 0 i 0 i i \
%          " \
%          .i,i .i,i 2 .2 i 8 i0 \
%          0 i,i 5 2 i0 i0 2 " \
%          i i i i i 2 i 5]
% anal Matrix = [i 0 0 0 0 0 i 0 0 0 0 i i(50ci525(i) 525(0) 525(0) 52i( ) 525( ) 52
```

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lyzi g l fu i

.1 anally in n ff

At least n will be analysed from a - - - - - . This means ~~maximum~~ 3 laws in addition the

numLa r la : 0 (r ad nl)

u c# #ructur :

in ui : #x# c ll f in ui
la r : #x# c ll f la r
ui ui : #x# c ll c n#aining # ui ui
#arg # : #x# c ll c n#aining # #arg #
ia : #x# c ll c n#aining # ia
la igh#c c c l # (n#aining) 525n g la #


```

n i : "Pui  ur cu  u  u inf rna i n h r ."
n i.farg i

an  =

      [x  ruci]
n i.farg i  i

an  =

      i  :  i

```

n i.la r ighi

an =

[]

n i.L

an =

[]

n i.I

an =

[i x2 d u l]

n i.I i

an =

0 0

n i.

an =

[0]

ppe i

le

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- [4]