



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON



```
samp      <- sam  
x         <- dat  
truth     <- dat  
for(j in 1:nla  
for(i in 1:100  
netsays(c(1,2,
```

```
##  
## [1,] 0.9643
```

```
netsays(c(0,4,
```

```
##  
## [1,] 0.0264
```

data trieste

ly / data trieste -
feedback



Middle
East
South
EAST ASIA

Challenges to Contributing Data

Peoples unwillingness
to put data online.

2) Challenges to reusing Data.

- 1) Very limited data
available in open
~~data~~ access domain
- 2) most of the data
is, ~~not~~ of no use

The credits
will go to the
users of data.

- 1- To Maintain
Secrecy of data
- 2- Not making public
before research get
published.
- 3- Limited resources
to make data public

LANGUAGE
DIFFERENCES IS
ONE OF THE
BIGGEST CHALLENGES
IN MIDDLE EAST

CONTROLLED
INTERNET
MEDIA &
ONLY SUPERVISED
ACCESS THROUGH
GOVT. LIBRARIES
& DATA SOURCES

DATA SHARING
IS RESTRICTED







```
netsays <- function(x) {  
  for(j in 1:nlayers) x <- 1/(1+exp(-x))  
  return(x)  
}  
  
backprop <- function(layer,n1,n2,factor) { # recursive function  
  if(layer>1) for(n in 1:nodes[layer-1])  
    backprop(layer-1,n2,n,factor*net[[layer]][n1,n2])  
  net[[layer]][n1,n2] <- net[[layer]][n1,n2] - ALPHA*factor  
}  
  
predict <- function(x,truth) { # like netsays but change  
  list() # to contain the outputs of all nodes in  
  x <- x # the input layer  
  for(n in 1:nlayers) r[[layer+1]] <- as.vector(1/(1+exp(-x)))  
  r[[1]] # final answer, for convenience  
  backprop(nlayers,1,n,(u-truth))  
}
```

CODATA School
Roger Barlow - A



Who Am I?

- Chief Operations Officer of the Open years – Software Assurance Marway
- Manager High Throughput Computing
- Institutional PI for OSG and PI of RPT
- Co-PI Science Node – (Formally - In Grid This Week)
- External Advisor to European Grid
- Member of the Organizational Advisory
- Co-Chair CODATA Research Data Group
- Co-organizer of African School of Physics









CODATA-RDA schools

Two week event

Focus on ECR's from Low and Middle Income Countries

Data Science skills

NOT another bootcamp!



6 Schools since 2016



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Curriculum