



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
```



datatrieste

tly/datatrieste-
Feedback

Middle
East
3 South
EAST ASIA

The credits
will go to the
users of data.

Challenges to
Contributing Data

- 1) Peoples unwillingness
to put data online.
 - →
- 2) Challenges to
sharing Data.
 - 1) Very limited data
available in open
~~lots~~ access domain
 - 2) Most of the data
is ~~not~~ of no use

1. To Maintain
Secrecy of data
2. Not making public
before research get
~~be~~ publish.
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*f
}

<- function(x,truth) { # like netsays but changes
  r <- list() # to contain the outputs of all nodes in
  x <- x # the input layer
  for(i in 1:nlayers) r[[i]] <- as.vector(1/nodes[[i]])
  r[[nlayers+1]] <- truth # final answer, for convenience
  CODATA School of Data Science Roger Barlow - A
  backprop(nlayers,1,n,(u
```



Who Am I?

- Owl Operations, Office of the CIO
- 15 years - Software Assurance Marketing
- Manage high throughput Customer Support
- Workforce 1000 FTE and 7000 FTE
- Intellectual Property - Software
- Co-Charterer - Software Engineering Institute
- External Advisor to European Software Institute
- Member of the Organization for Standardization
- Co-Chair COCOMA's Research Committee
- Co-organizer of JNCIC's Technical Working Group











CODATA-RDA schools



Two week event

Focus on ECR's from LMIC's

Technical + Responsible Research skills
= Research Data Science

NOT another bootcamp!

Principles