



(https://datahack.analyticsvidhya.com/contest/mckinsey-analytics-online-hackathon-recommendation/?utm\_source=AVhome\_top)

Home (https://www.analyticsvidhya.com/) > Deep Learning (https://www.analyticsvidhya.com/blog/category/deep-L..

# Creating & Visualizing Neural Network in R

DEEP LEARNING (HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/CATEGORY/DEEP-LEARNING/) R  
(HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/CATEGORY/R/)

SHARE 

f

(http://www.facebook.com/sharer.php?u=https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/&t=Creating%20%20Visualizing%20Neural%20Network%20in%20R)

(https://twitter.com/home?status=Creating%20%20Visualizing%20Neural%20Network%20in%20R+https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/)

g+

(https://plus.google.com/share?url=https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/)

p

(http://pinterest.com/pin/create/button?url=https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/&media=https://s3-ap-south-1.amazonaws.com/av-blog-media/wp-content/uploads/2017/09/14092705/play-stone-network-networked-interactive-163064.jpeg&description=Creating%20%20Visualizing%20Neural%20Network%20in%20R)

## Introduction

Neural network is an information-processing machine and can be viewed as analogous to human nervous system. Just like human nervous system, which is made up of interconnected neurons, a neural network is made up of interconnected information processing units. The information processing units do not work in a linear manner. In fact,






















The article provides a quick review neural network and is a useful reference for data enthusiasts. We have provided commented R code throughout the article to help readers with hands on experience of using neural networks.


**Bio:** [Chaitanya Sagar \(https://www.linkedin.com/in/chaitanyasagar/\)](https://www.linkedin.com/in/chaitanyasagar/) is the Founder and CEO of [Perceptive Analytics \(http://www.perceptive-analytics.com/\)](http://www.perceptive-analytics.com/). Perceptive Analytics is one of the top analytics companies in India. It works on Marketing Analytics for ecommerce, Retail and Pharma companies.


Share this:


 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=linkedin&nb=1&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=facebook&nb=1&nb=1>)

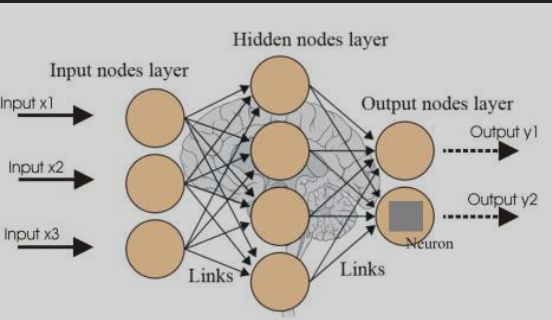
 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=google-plus-1&nb=1&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=twitter&nb=1&nb=1>)

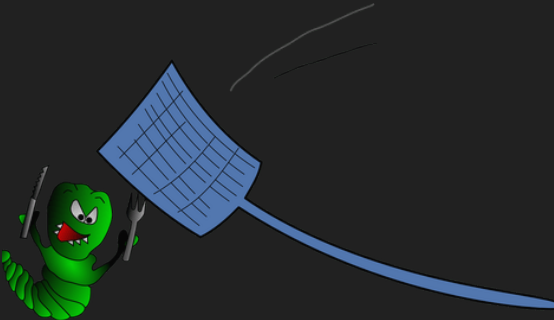
 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=pocket&nb=1&nb=1>)

 (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?share=reddit&nb=1&nb=1>)

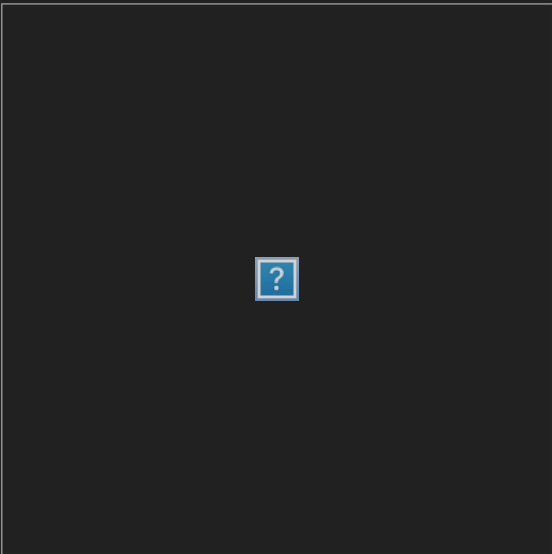
RELATED



<https://www.analyticsvidhya.com/blog/2016/08/evolution-core-concepts-deep-learning-neural-networks/>  
The Evolution and Core Concepts

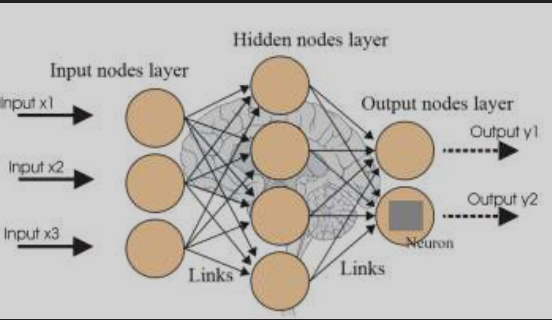


<https://www.analyticsvidhya.com/blog/2017/07/debugging-neural-network-with-tensorboard/>  
Debugging & Visualising training of Neural Network with



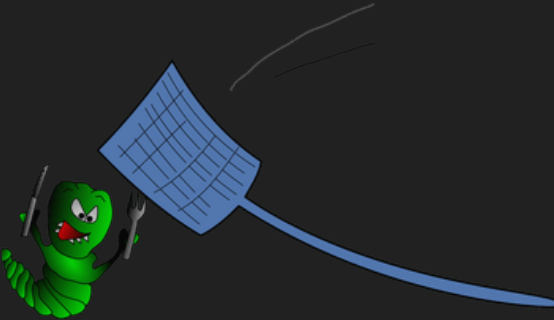
<https://www.analyticsvidhya.com>

of Deep Learning & Neural  
Networks  
(https://www.analyticsvidhya.com  
/blog/2016/08/evolution-core-  
concepts-deep-learning-neural-  
networks/)  
August 3, 2016  
In "Machine Learning"



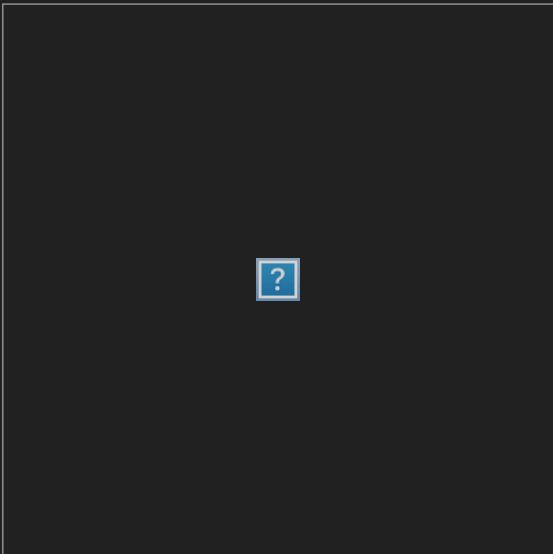
(https://www.analyticsvidhya.com  
/blog/2016/08/evolution-core-  
concepts-deep-learning-neural-  
networks/)  
The Evolution and Core Concepts  
of Deep Learning & Neural  
Networks  
(https://www.analyticsvidhya.com  
/blog/2016/08/evolution-core-  
concepts-deep-learning-neural-  
networks/)  
August 3, 2016  
In "Machine Learning"

TensorBoard  
(https://www.analyticsvidhya.com  
/blog/2017/07/debugging-neural-  
network-with-tensorboard/)  
July 17, 2017  
In "Deep Learning"



(https://www.analyticsvidhya.com  
/blog/2017/07/debugging-neural-  
network-with-tensorboard/)  
Debugging & Visualising training  
of Neural Network with  
TensorBoard  
(https://www.analyticsvidhya.com  
/blog/2017/07/debugging-neural-  
network-with-tensorboard/)  
July 17, 2017  
In "Deep Learning"

/blog/2017/01/must-know-  
questions-deep-learning/)  
45 Questions to test a data  
scientist on basics of Deep  
Learning (along with solution)  
(https://www.analyticsvidhya.com  
/blog/2017/01/must-know-  
questions-deep-learning/)  
January 29, 2017  
In "Machine Learning"



(https://www.analyticsvidhya.com  
/blog/2017/01/must-know-  
questions-deep-learning/)  
45 Questions to test a data  
scientist on basics of Deep  
Learning (along with solution)  
(https://www.analyticsvidhya.com  
/blog/2017/01/must-know-  
questions-deep-learning/)  
January 29, 2017  
In "Machine Learning"

TAGS: BASICS OF NEURAL NETWORK (HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/BASICS-OF-NEURAL-NETWORK/), CROSS VALIDATION OF  
NEURAL NETWORK (HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/CROSS-VALIDATION-OF-NEURAL-NETWORK/), DEEP LEARNING IN R  
(HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/DEEP-LEARNING-IN-R/), FITTING NEURAL NETWORK IN R  
(HTTPS://WWW.ANALYTICSVIDHYA.COM/BLOG/TAG/FITTING-NEURAL-NETWORK-IN-R/)

Next Article

Building Machine Learning Model is fun using Orange

(<https://www.analyticsvidhya.com/blog/2017/09/building-machine-learning-model-fun-using-orange/>)

Previous Article

30 Questions to test a data scientist on Tree Based Models

(<https://www.analyticsvidhya.com/blog/2017/09/30-questions-test-tree-based-models/>)



(<https://www.analyticsvidhya.com/blog/author/guest-blog/>)

Author

Guest Blog (<https://www.analyticsvidhya.com/blog/author/guest-blog/>)

## 2 COMMENTS



**Ron Hendrickson says:**

<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?replytocom=136663#respond>  
SEPTEMBER 8, 2017 AT 7:34 PM (<https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/#comment-136663>)

Wonderful! Thanks for the excellent learning demo.



**Blaine Bateman says**  
REPLY (https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/?replytocom=136832#respond)  
SEPTEMBER 11, 2017 AT 3:25 AM (https://www.analyticsvidhya.com/blog/2017/09/creating-visualizing-neural-network-in-r/#comment-136832)

Thank you for the post. It is excellent in that you introduce a lot of nuances but explain them and demonstrate them. This is a very high-quality tutorial.

## LEAVE A REPLY

Your email address will not be published.

Comment


Name (required)




Email (required)

Website

SUBMIT COMMENT

## TOP ANALYTICS VIDHYA USERS

Rank	Name		Points
1		vopani (https://datahack.analyticsvidhya.com/user/profile/Rohan Rao)	8704

2		srk ( <a href="https://datahack.analyticsvidhya.com/user/profile/srk">https://datahack.analyticsvidhya.com/user/profile/srk</a> )	8287
3		aayushmnit ( <a href="https://datahack.analyticsvidhya.com/user/profile/aayushmnit">https://datahack.analyticsvidhya.com/user/profile/aayushmnit</a> )	7128
4		binga ( <a href="https://datahack.analyticsvidhya.com/user/profile/binga">https://datahack.analyticsvidhya.com/user/profile/binga</a> )	5319
5		sonny ( <a href="https://datahack.analyticsvidhya.com/user/profile/sonny">https://datahack.analyticsvidhya.com/user/profile/sonny</a> )	5266
<a href="http://datahack.analyticsvidhya.com/users">More Rankings (http://datahack.analyticsvidhya.com/users)</a>			



**greatlearning**

**LEADERS IN ANALYTICS**

([http://www.greatlearning.education/analytics/?](http://www.greatlearning.education/analytics/?utm_source=avm&utm_medium=avmbanner&utm_campaign=pgpba+bda)  
[utm\\_source=avm&utm\\_medium=avmbanner&utm\\_campaign=pgpba+bda](http://www.greatlearning.education/analytics/?utm_source=avm&utm_medium=avmbanner&utm_campaign=pgpba+bda))



**PG Diploma in Data Science**  
400+ hours of learning

**APPLY NOW**



([https://upgrad.com/data-science?](https://upgrad.com/data-science?utm_source=AV&utm_medium=Display&utm_campaign=DS_AV_Banner&utm_term=DS_AV_Banner)  
[utm\\_source=AV&utm\\_medium=Display&utm\\_campaign=DS\\_AV\\_Banner&utm\\_term=DS\\_AV\\_Banner](https://upgrad.com/data-science?utm_source=AV&utm_medium=Display&utm_campaign=DS_AV_Banner&utm_term=DS_AV_Banner))



## RECENT POSTS

---



([https://www.analyticsvidhya.com/blog/2018/03/interview-margherita-pagani-](https://www.analyticsvidhya.com/blog/2018/03/interview-margherita-pagani-clement-levallois-program-co-directors-msc-digital-marketing-data-science-emlyon-business-school/)

[clement-levallois-program-co-directors-msc-digital-marketing-data-science-emlyon-business-school/](https://www.analyticsvidhya.com/blog/2018/03/interview-margherita-pagani-clement-levallois-program-co-directors-msc-digital-marketing-data-science-emlyon-business-school/))

**Interview with Margherita Pagani and Clément Levallois, Program Co-Directors, MSc in Digital Marketing and Data Science, emlyon business school**

(<https://www.analyticsvidhya.com/blog/2018/03/interview-margherita-pagani-clement-levallois-program-co-directors-msc-digital-marketing-data-science-emlyon-business-school/>)

PRANAV DAR , MARCH 8, 2018



([https://www.analyticsvidhya.com/blog/2018/03/inspiring-women-blazing-a-](https://www.analyticsvidhya.com/blog/2018/03/inspiring-women-blazing-a-trail-in-the-data-science-world/)

[trail-in-the-data-science-world/](https://www.analyticsvidhya.com/blog/2018/03/inspiring-women-blazing-a-trail-in-the-data-science-world/))

**19 Inspiring Women Blazing a Trail in the Data Science World**

(<https://www.analyticsvidhya.com/blog/2018/03/inspiring-women-blazing-a-trail-in-the-data-science-world/>)

PRANAV DAR , MARCH 8, 2018



([https://www.analyticsvidhya.com/blog/2018/03/text-generation-using-python-](https://www.analyticsvidhya.com/blog/2018/03/text-generation-using-python-nlp/)

[nlp/](https://www.analyticsvidhya.com/blog/2018/03/text-generation-using-python-nlp/))

**How to create a poet / writer using Deep Learning (Text Generation using Python)?**

(<https://www.analyticsvidhya.com/blog/2018/03/text-generation-using-python-nlp/>)

PRANJAL SRIVASTAVA , MARCH 6, 2018





(<https://www.analyticsvidhya.com/blog/2018/03/avbytes-developments-machine-learning/>)

AVBytes: AI & ML Developments this week – Google Brain’s Image Manipulation, Record-Breaking AI, Stanford’s ML Model Predicts Poverty

(<https://www.analyticsvidhya.com/blog/2018/03/avbytes-developments-machine-learning/>)  
PRANAV DAR , MARCH 4, 2018



([http://www.edvancer.in/certified-data-scientist-](http://www.edvancer.in/certified-data-scientist-with-python-course?utm_source=AV&utm_medium=AVads&utm_campaign=AVadsnonfc&utm_content=pythonavad)

[with-python-course?utm\\_source=AV&utm\\_medium=AVads&utm\\_campaign=AVadsnonfc&utm\\_content=pythonavad](http://www.edvancer.in/certified-data-scientist-with-python-course?utm_source=AV&utm_medium=AVads&utm_campaign=AVadsnonfc&utm_content=pythonavad))

## GET CONNECTED



14,722  
FOLLOWERS


(<http://www.twitter.com/analyticsvidhya>)



43,624

FOLLOWERS

(<http://www.facebook.com/Analyticsvidhya>)



2,597

FOLLOWERS

(<https://plus.google.com/+Analyticsvidhya>)



Email

SUBSCRIBE

(<http://feedburner.google.com/fb/a/mailverify?uri=analyticsvidhya>)



([https://datahack.analyticsvidhya.com/contest/mckinsey-analytics-online-hackathon-recommendation/?utm\\_source=AVblog\\_sidebottom](https://datahack.analyticsvidhya.com/contest/mckinsey-analytics-online-hackathon-recommendation/?utm_source=AVblog_sidebottom))



([https://datahack.analyticsvidhya.com/contest/datahack-premier-league/?utm\\_source=AVblog\\_sidebottom](https://datahack.analyticsvidhya.com/contest/datahack-premier-league/?utm_source=AVblog_sidebottom))

