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Need help with Deep Learning? Take the FREE Mini-Course

9 Ways to Get Help with Deep Learning in Keras

by **Jason Brownlee** on August 2, 2017 in **Deep Learning**

🐦   f   in   G+

Keras is a Python deep learning library that can use the efficient Theano or TensorFlow symbolic math libraries as a backend.

Keras is so easy to use that you can develop your first Multilayer Perceptron, Convolutional Neural Network, or LSTM Recurrent Neural Network in minutes.

You may have technical questions when you get started using Keras. You may need a little help.

In this post, you will discover 9 places where you can ask questions and get help when developing deep learning models with Keras.

Let's dive in.

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How to Best Use These Resources

Knowing where to get help is the first step, but you need to know how to get the most out of these resources.

Below are some tips that you can use:

- Boil your question down to the simplest form. E.g. not "*my model does not work*" or "*how does x work*".
- Search for answers before asking questions.
- Provide the smallest possible working example to demonstrate your issue.

1. Keras Users Google Group

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Keras-users   Shared publicly

60 of 2488 topics (99+ unread) ☆   **Join group**   G+1   About ⊙

Welcome to the Keras users forum. Keras is a Deep Learning package built on the top of Theano, that focuses on enabling fast experimentation.

Documentation at: http://keras.io/

Code at: https://github.com/fchollet/keras

Feel free to ask questions in this forum about usage of the package or to share interesting work you have done with Keras.

Merging and splitting layers (1)
By Alexander Schindler - 1 post - 2 views   00:13

Keras maximum absolute value layer (1)
By daniel....@gmail.com - 1 post - 1 view

Feature vector input for feature vector output [LSTM] (1)
By Tarasha Khurana - 1 post - 4 views

Two input of one layer (3)
By d.zhan...@gmail.com - 3 posts - 10 views

Neural network input shape error (1)
By simonne...@gmail.com - 1 post - 2 views

Merging time distributed tensor gives 'inbound node error' (2)
By adity...@gmail.com - 2 posts - 4 views

Keras on Android (11)
By Tammy Yang - 11 posts - 1350 views

Regarding running Multiple Model parallely in GPU (1)
By Amitha Hiriadaka - 1 post - 6 views   12 Jun

Keras 2.0.4 and gpu (2)
By harry....@gmail.com - 2 posts - 41 views   11 Jun

Keras Users Google Group

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Perhaps the most direct place to ask questions of the Keras community is the Keras Users group on ~~Google group (old post)~~

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You do not need to get the emails; you can participate online, which I recommend.

- [Keras Users Google Group](#)

2. Keras Slack Channel

Keras Slack Channel

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Perhaps the best place for direct chatting about Keras and related issues is the Keras slack channel.

This has basically replaced IM and IIRC.

You must submit an application to join first.

- Keras Slack Join Form
- Keras Slack Channel

3. Keras on Gitter

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It's supposed to be an implementation of
https://www.cs.cmu.edu/~rsalakhu/papers/oneshot1.pdf

K Kishore @kishorenayar   Jun 08 02:06
How do I convert mode.h5 to tensorflow format. Please look into this
link.

fchollet/keras#6888

tbhfeng @tbhfeng   Jun 09 10:50
Hey all, I was wondering if anyone has any advice or insight on this
issue im having. I am training a model using only 600 images, on a
300/300 split. i tried using the inception_v3 model (transfer learning)
with code modified from the keras tutorial, and my model always
stablizes at accuracy: .50, binary_accuracy .50. I also trained my own
model and i saw the same issue. does anyone have any insight on
why this is?

tbhfeng @tbhfeng   Jun 09 11:09
Epoch 8/30
600/600 [==============================] - 9s - loss: 7.9712 -
acc: 0.5000 - binary_accuracy: 0.5000

SIGN IN TO START TALKING

ahundt edited #6928
ahundt edited #6928
ahundt edited #6928
ahundt edited #6928
ahundt edited #6928
ahundt edited #6928

Keras Gitter Group

Another good place to chat about Keras is on the Keras Gitter.

This is just like slack and still has a good amount of people on it.

Dive in.

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- [Keras Gitter Group](#)

4. Keras tag on StackOverflow

Keras tag on StackOverflow

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StackOverflow is a question-and-answer site dedicated to programming.

There are a ton of questions on or related to deep learning and Keras.

I would recommend searching and asking questions that use the "*keras*" tag.

- Keras tag on StackOverflow

5. Keras tag on CrossValidated

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Get Your Start in Machine Learning

Cross Validated

QUESTIONS   TAGS   USER

Tagged Questions

info   newest   frequent   **votes**   active   unanswered

Open source high-level neural network library for Python. Is capable of using TensorFlow or Theano as backend.

learn more…   improve tag info   top users   synonyms

3
votes

1
answer

Predicting the observations in a POMDP with a rec

I use neural networks for online sequence prediction. The performance of
nearly as good as I expected. Maybe someone can help me understand w

markov-process   lstm   sequence-analysis   keras   recursive-model

61 views

2
votes

1
answer

Number of trainable parameters in Convolution m

I am using keras to implement a cnn model. ...

neural-networks   conv-neural-network   convolution   keras

79 views

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user160143
11 🟧 1

1
vote

1

Neural Network cannot learn a simple function

I am trying to train a simple neural network for regression, where the underlying function is a quadratic.
Training data is generated by this underlying function, and I am just trying to get a network ...

Keras tag on CrossValidated

Get Your Start in Machine Learning

CrossValidated is a question-and-answer site dedicated to machine learning.

There are still a ton of questions on and related to Keras, but they may have a more theoretical bend and less of a focus on code and programming.

Again, I recommend searching and asking questions that use the "*keras*" tag.

- Keras tag on CrossValidated

6. Keras tag on DataScience

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Data Science beta

Questions   Tags   Use

Tagged Questions

info   newest   frequent   **votes**   active   unanswered

Keras is a minimalist, highly modular neural network library written in Python.

learn more…   improve tag info   top users   synonyms

---

13 votes

1 answer

1k views

The difference between `Dense` and `TimeDistributedDense`

I am still confused about the difference between Dense and TimeDistribut

machine-learning   neural-network   keras

---

13 votes

1 answer

5k views

Choosing between TensorFlow or Theano as backend for K

Keras supports both TensorFlow and Theano as backend: what are the p
other, besides the fact that currently not all operations are implemented w

neural-network   deep-learning   theano   tensorflow   keras

2,440 ● 11 ● 39

---

10 votes

4 answers

How to set class weights for imbalanced classes in Keras?

I know that there is a possibility in Keras with the class_weights parameter dictionary at fitting, but I couldn't find any example. Would somebody so kind to ...

classification   keras   weighted-data

Keras tag on DataScience Stack Exchange

The StackExchange network that backs StackOverflow and CrossValidated also has a site dedicated to DataScience.

It is still in the beta program, and is not an official member of the network yet. Nevertheless, there are a good number of Keras questions on the site.

Unlike the other two sites, the questions may have a more process orientation.

Again, I recommend searching and asking questions that use the "*keras*" tag.

- Keras tag on DataScience Stack Exchange

7. Keras Topic on Quora

K Keras

Read   Answer   Most Viewed Writers   ⋯   Follow Topic 2.1k

Feed

Answer written · Artificial Intelligence · Mar 25

Is it easy to train a Deep Neural Network model from scratch using Keras?

Shriphani Palakodety, Do it for a living.
Answered Mar 25

Yes.... (?)

Keras Documentation ⧉

97 Views · View Timeline

Upvote   Downvote   Comment   f 𝕏 ⬀ ⋯

Question followed · Deep Learning · Sat

Will Keras remain useful and relevant as tf.contrib.layers becomes more capable and easier to use?

3 Answers

✏ Answer   Pass   Follow 8   Downvote   ⋯

Keras topic on Quora

About

Describe the **Keras** topic

Deep Neural Networks
197 Followers

Quora is a large general purpose question-and-answer site.

Although it is general purpose, there are a lot of questions on technical topics, including Keras and deep learning.

The focus of the questions are more text-based and expository. You may get more detail on the techniques rather than implementation detail.

I would recommend searching and asking questions in the "*Keras*" topic.

- Keras topic on Quora

8. Keras Github Issues

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Loss turns into 'nan' when running on GPU
#1244 opened on Dec 11 2015 by lmoesch   💬 45

Spring 2017 roadmap: Keras 2, PR freeze, TF integration `Announcement`
#5299 opened on Feb 7 by fchollet   💬 44

Not able to resume training after loading model + weights
#2378 opened on Apr 18 2016 by trane293   💬 43

Seq2seq learning: Can I specify the initial hidden state of an LSTM/GRU?
                                                                          💬 43

Keras Github Issues

Keras is an open source project that is hosted on GitHub.

GitHub provides a basic issue management system and the Keras project has a lot of issues reporte
technical issues with the code, there is a surprising amount of good discussion on Keras in the issue

I would recommend searching through the Keras issues but only posting an issue if you have found
guidelines).

- Keras Github Issues

9. Keras on Twitter

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People   View all

François Chollet ✔
@fchollet

TWEETS
7,552

FOLLOWING
525

FOLLOWERS
27.3K

Following

Deep learning @google. Author of Keras, neural networks library. Founder of Wys~
learning platform for artists.

Mountain View, CA • keras.io

Followed by Ian Goodfellow and 35 others

Ermia Bivatan @ErmiaBivatan · Jun 11
I've just implemented both #selu activation function & #SELU layer in #K
Will be design #SELU_dropout tomorrow. #DeepLearning

↩ 2   ⟲ 3   ♥ 14   ✉

Ermia Bivatan @ErmiaBivatan · Jun 11
After many trials,I think there is no advantage of using #selu instead of #
result is even worse in many cases.
#deeplearning #keras

↩ 2   ⟲ 1   ♥ 1   ✉

David Smith follows

Giora Simchoni @GioraSimchoni · Jun 12
Using #deeplearning to distinguish between @SouthPark and @TheSimpsons

Keras hash tag on Twitter

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You may get fast answers to one-off Keras questions on twitter.

I would recommend using the Twitter search and searching for "*keras*" first.

I would also recommend searching and posting using the "*keras*" hashtag.

- Keras hashtag on Twitter

You may also get insight by following the creator and lead developer behind Keras, François Chollet.

Other Keras Destinations

Below are other Keras sites where you may find help.

- Keras Official Blog
- Keras API Documentation
- Keras Source Code Project

Summary

In this post, you discovered 9 different places around the web where you can get answers and ask q

Have you used any of these resources?
How did you do?

Are there are places where you like to get help with Keras?
Please let me know in the comments below.

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Frustrated With Your Progress In Deep Learning?

What If You Could Develop A Network in Minutes

…with just a few lines of Python

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It covers **self-study tutorials** and **end-to-end projects** on topics like:
Multilayer Perceptrons, *Convolutional Nets* and *Recurrent Neural Nets*, and more…

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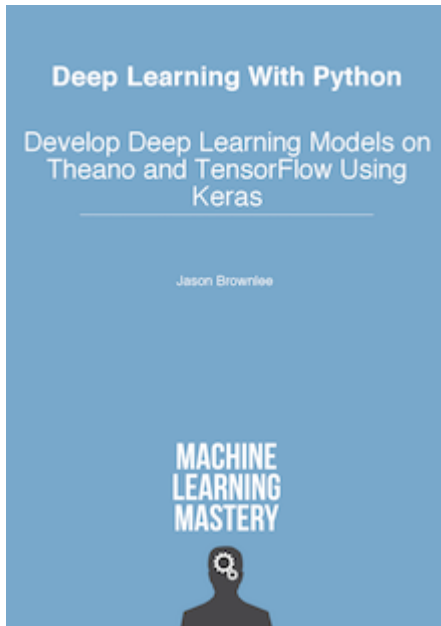
About Jason Brownlee

Dr. Jason Brownlee is a husband, proud father, academic researcher, author, professional devel
to helping developers get started and get good at applied machine learning. Learn more.

View all posts by Jason Brownlee →

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2 Responses to *9 Ways to Get Help with Deep Learning in Keras*

Gerrit Govaerts August 2, 2017 at 5:11 pm #

REPLY ↰

You forgot François Chollet's own Keras Blog .He has a very interesting article on it about how he sees AI evolving into AGI :

https://blog.keras.io/the-future-of-deep-learning.html

Jason Brownlee August 3, 2017 at 6:46 am #

REPLY ↰

Thanks Gerrit.

Leave a Reply

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Name (required)

Email (will not be published) (required)

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Website

SUBMIT COMMENT

Welcome to Machine Learning Mastery

Hi, I'm Dr. Jason Brownlee.
My goal is to make practitioners like YOU awesome at applied machine learning.

Read More

Finally Get Started With Deep Learning

Sick of the fancy math and need for super computers?
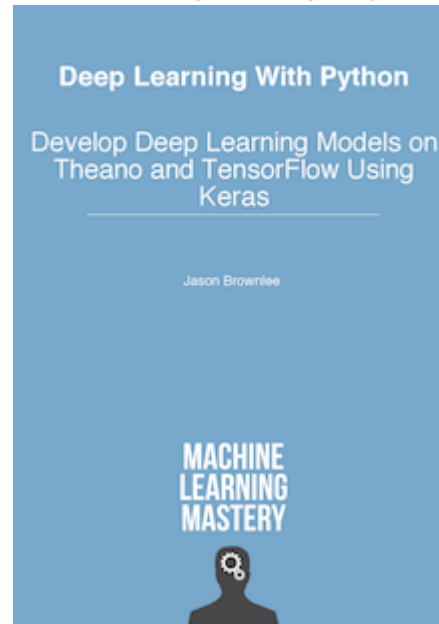Looking for step-by-step tutorials?
Want end-to-end projects?

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POPULAR

Time Series Prediction with LSTM Recurrent Neural Networks in Python with Keras
JULY 21, 2016

Your First Machine Learning Project in Python Step-By-Step
JUNE 10, 2016

Develop Your First Neural Network in Python With Keras Step-By-Step
MAY 24, 2016

Sequence Classification with LSTM Recurrent Neural Networks in Python with Keras
JULY 26, 2016

How to Setup a Python Environment for Machine Learning and Deep Learning with Anaconda
MARCH 13, 2017

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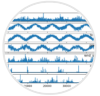**Time Series Forecasting with the Long Short-Term Memory Network in Python**

APRIL 7, 2017

Multi-Class Classification Tutorial with the Keras Deep Learning Library
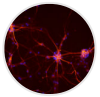
JUNE 2, 2016

Regression Tutorial with the Keras Deep Learning Library in Python

JUNE 9, 2016

Multivariate Time Series Forecasting with LSTMs in Keras

AUGUST 14, 2017

How to Implement the Backpropagation Algorithm From Scratch In Python

NOVEMBER 7, 2016

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