

Bibliography

Better performance with tf.function | TensorFlow Core. (n.d.). TensorFlow. Retrieved

February 28, 2025, from <https://www.tensorflow.org/guide/function>

Building Models with PyTorch—PyTorch Tutorials 2.6.0+cu124 documentation. (n.d.).

Retrieved February 27, 2025, from

https://pytorch.org/tutorials/beginner/introyt/modelsyt_tutorial.html?highlight=recurrent%20neural

Convolutional Neural Network (CNN) | TensorFlow Core. (n.d.). TensorFlow. Retrieved

February 27, 2025, from <https://www.tensorflow.org/tutorials/images/cnn>

Custom layers | TensorFlow Core. (n.d.). TensorFlow. Retrieved February 28, 2025, from

https://www.tensorflow.org/tutorials/customization/custom_layers

Data type API — NumPy v2.2 Manual. (n.d.). Retrieved February 28, 2025, from

<https://numpy.org/doc/stable/reference/c-api/dtype.html>

EmbeddingBag—PyTorch 2.6 documentation. (n.d.). Retrieved February 27, 2025, from

<https://pytorch.org/docs/stable/generated/torch.nn.EmbeddingBag.html>

Gensim: Topic modelling for humans. (n.d.). Retrieved February 27, 2025, from

<https://radimrehurek.com/gensim/models/word2vec.html>

Get started with TensorFlow.js. (n.d.). Retrieved February 26, 2025, from

<https://www.tensorflow.org/js/tutorials>

Install TensorFlow 2. (n.d.). Retrieved February 26, 2025, from

<https://www.tensorflow.org/install>

Install TensorFlow with pip. (n.d.). Retrieved February 26, 2025, from

<https://www.tensorflow.org/install/pip>

Introduction to TensorFlow. (n.d.). TensorFlow. Retrieved February 27, 2025, from <https://www.tensorflow.org/learn>

Introduction to Tensors | TensorFlow Core. (n.d.). TensorFlow. Retrieved February 28, 2025, from <https://www.tensorflow.org/guide/tensor>

Module: Tf.keras.losses | TensorFlow v2.16.1. (n.d.-a). TensorFlow. Retrieved February 27, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/losses

Module: Tf.keras.optimizers | TensorFlow v2.16.1. (n.d.-b). Retrieved February 28, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/optimizers

NLP Gensim Tutorial—Complete Guide For Beginners. (11:29:56+00:00). GeeksforGeeks. <https://www.geeksforgeeks.org/nlp-gensim-tutorial-complete-guide-for-beginners/>

numpy.distutils user guide—NumPy v2.2 Manual. (n.d.). Retrieved February 28, 2025, from https://numpy.org/doc/stable/reference/distutils_guide.html

numpy.pad—NumPy v2.2 Manual. (n.d.). Retrieved February 28, 2025, from <https://numpy.org/doc/stable/reference/generated/numpy.pad.html>

Overview. (n.d.). Retrieved February 26, 2025, from https://huggingface.co/docs/datasets/how_to

README.md · tomaarsen/MultiCoNER at main. (2023, October 1). <https://huggingface.co/datasets/tomaarsen/MultiCoNER/blob/main/README.md>

Search results for “tensor to array” | TensorFlow. (n.d.). Retrieved February 27, 2025, from <https://www.tensorflow.org/s/results>

Search—PyTorch 2.6 documentation. (n.d.). Retrieved February 26, 2025, from https://pytorch.org/docs/stable/search.html?q=word+embeddings&check_keywords=yes&area=default

Set up a TensorFlow.js project. (n.d.). TensorFlow. Retrieved February 26, 2025, from <https://www.tensorflow.org/js/tutorials/setup>

Team, K. (n.d.-a). *Keras documentation: Recurrent layers.* Retrieved February 27, 2025, from https://keras.io/api/layers/recurrent_layers/

Team, K. (n.d.-b). *Keras documentation: SimpleRNN layer.* Retrieved February 27, 2025, from https://keras.io/api/layers/recurrent_layers/simple_rnn/

TensorFlow.js. (n.d.). Retrieved February 27, 2025, from <https://js.tensorflow.org>

Text and natural language processing with TensorFlow | TensorFlow Core. (n.d.). Retrieved February 27, 2025, from <https://www.tensorflow.org/tutorials/text>

Tf.compat.v1.disable_eager_execution | TensorFlow v2.16.1. (n.d.). Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/compat/v1/disable_eager_execution

tf.data: Build TensorFlow input pipelines | TensorFlow Core. (n.d.). TensorFlow. Retrieved February 28, 2025, from <https://www.tensorflow.org/guide/data>

Tf.data.Iterator | TensorFlow v2.16.1. (n.d.). TensorFlow. Retrieved February 27, 2025, from https://www.tensorflow.org/api_docs/python/tf/data/Iterator

Tf.keras.layers.Dense | TensorFlow v2.16.1. (n.d.). TensorFlow. Retrieved February 28, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/layers/Dense

Tf.keras.layers.RNN | TensorFlow v2.16.1. (n.d.). Retrieved February 27, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/layers/RNN

Tf.keras.layers.SimpleRNN | TensorFlow v2.16.1. (n.d.). TensorFlow. Retrieved February 27, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/layers/SimpleRNN

Tf.keras.layers.Softmax | *TensorFlow v2.16.1*. (n.d.). Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/layers/Softmax

Tf.keras.Loss | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 27, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/Loss

Tf.keras.losses.CategoricalCrossentropy | *TensorFlow v2.16.1*. (n.d.). Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/losses/CategoricalCrossentropy

Tf.keras.losses.SparseCategoricalCrossentropy | *TensorFlow v2.16.1*. (n.d.). Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/losses/SparseCategoricalCrossentropy

Tf.keras.metrics.F1Score | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 28, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/metrics/F1Score

Tf.keras.Model | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 27, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/Model

Tf.keras.optimizers.Adadelta | *TensorFlow v2.16.1*. (n.d.). Retrieved February 28, 2025, from https://www.tensorflow.org/api_docs/python/tf/keras/optimizers/Adadelta

Tf.keras.utils.pad_sequences | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/keras/utils/pad_sequences

Tf.math.round | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/math/round

Tfma.types.VarLenTensorValue | TFX. (n.d.). TensorFlow. Retrieved February 27, 2025, from

https://www.tensorflow.org/tfx/model_analysis/api_docs/python/tfma/types/VarLenTensorValue

Tf.stack | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 28, 2025, from

https://www.tensorflow.org/api_docs/python/tf/stack

Tf.strings.ngrams | *TensorFlow v2.16.1*. (n.d.). Retrieved February 27, 2025, from

https://www.tensorflow.org/api_docs/python/tf/strings/ngrams

Tf.TensorArray | *TensorFlow v2.16.1*. (n.d.). TensorFlow. Retrieved February 27, 2025, from

https://www.tensorflow.org/api_docs/python/tf/TensorArray

Tomaarsen/MultiCoNER · Datasets at Hugging Face. (2024, March 30).

<https://huggingface.co/datasets/tomaarsen/MultiCoNER>

torch.nn.functional.embedding—PyTorch 2.6 documentation. (n.d.). Retrieved February 26, 2025, from

<https://pytorch.org/docs/stable/generated/torch.nn.functional.embedding.html>

Training & evaluation with the built-in methods | *TensorFlow Core*. (n.d.). TensorFlow. Retrieved February 4, 2025, from

https://www.tensorflow.org/guide/keras/training_with_built_in_methods

Tutorials | *TensorFlow Core*. (n.d.). Retrieved February 3, 2025, from

<https://www.tensorflow.org/tutorials>

Understanding masking & padding | *TensorFlow Core*. (n.d.). TensorFlow. Retrieved February 27, 2025, from

https://www.tensorflow.org/guide/keras/understanding_masking_and_padding

Using 🤗 Datasets. (n.d.). Retrieved February 3, 2025, from

<https://huggingface.co/docs/hub/datasets-usage>

venv—Creation of virtual environments. (n.d.). Python Documentation. Retrieved February

3, 2025, from <https://docs.python.org/3/library/venv.html>

Word Embedding using Word2Vec. (18:15:45+00:00). GeeksforGeeks.

<https://www.geeksforgeeks.org/python-word-embedding-using-word2vec/>

Word embeddings | Text. (n.d.). TensorFlow. Retrieved February 26, 2025, from

https://www.tensorflow.org/text/guide/word_embeddings

Word2vec | Text. (n.d.). TensorFlow. Retrieved February 4, 2025, from

<https://www.tensorflow.org/text/tutorials/word2vec>

Working with RNNs | TensorFlow Core. (n.d.). TensorFlow. Retrieved February 27, 2025,

from https://www.tensorflow.org/guide/keras/working_with_rnns