

TEKLRN

TENSORFLOW LEVEL 20

1. Neural machine translation with attention
2. Download and prepare the dataset
3. Limit the size of the dataset to experiment faster (optional)
4. Create a tf.data dataset
5. Write the encoder and decoder model
- 6.
7. Define the optimizer and the loss function
 - Checkpoints (Object-based saving)
8. Training
9. Translate
10. Restore the latest checkpoint and test
11. Image captioning with visual attention
12. Download and prepare the MS-COCO dataset
13. Optional: limit the size of the training set
14. Preprocess the images using InceptionV3
15. Initialize InceptionV3 and load the pretrained Imagenet weights
16. Caching the features extracted from InceptionV3
17. Preprocess and tokenize the captions
18. Split the data into training and testing
19. Create a tf.data dataset for training
 - Model
 - Checkpoint
 - Training
 - Caption!
 - Try it on your own images