TEKLRN

TENSORFLOW LEVEL 21

1. Transformer model for language understanding
    - Setup input pipeline
    - Positional encoding
    - Masking

2. Scaled dot product attention

3. Multi-head attention

4. Point wise feed forward network

5. Encoder and decoder
    - Encoder layer
    - Decoder layer
    - Encoder
    - Decoder

6. Create the Transformer

7. Set hyperparameters

8. Optimizer
    - Loss and metrics

9. Training and checkpointing
    - Evaluate

10. Fine-tuning a BERT model
    - Setup
    - Imports
    - Resources

11. The data
    - Get the dataset from TensorFlow Datasets
    - The BERT tokenizer
    - Tokenize a sentence:
    - Preprocess the data
    - Encode the sentences

12. Mask and input type

13. Put it all together

14. The model

- Build the model
- Restore the encoder weights

15. Set up the optimizer

16. Train the model

17. Save the model

18. Re-encoding a large dataset

19. Create tf.data.Dataset for training and evaluation

20. TFModels BERT on TFHub

21. Low level model building

22. Restore the weights:

23. Test run it:

24. Optimizers and schedules