TEKLRN

TENSORFLOW LEVEL 11

1. Customization basics: tensors and operations
   - Import TensorFlow
   - Tensors
2. NumPy Compatibility
3. GPU acceleration
4. Device Names
   - Explicit Device Placement
5. Datasets
   - Create a source Dataset
6. Apply transformations
   - Iterate
7. Custom layers
8. Layers: common sets of useful operations
   - Implementing custom layers
   - Models: Composing layers
   - Models: Composing layers
9. TensorFlow programming
   - Setup program
   - Configure imports
   - Import and parse the training dataset
10. Download the dataset
    - Inspect the data
    - Create a tf.data.Dataset
11. Select the type of model
    - Why model?
    - Select the model
    - Create a model using Keras
    - Using the model
    - Train the model
12. Define the loss and gradient function
    - Training loop
    - Visualize the loss function over time

13. Evaluate the model's effectiveness
    - Setup the test dataset
    - Evaluate the model on the test dataset

14. Use the trained model to make predictions

15. Create an optimizer