Google Cloud

Module 3 Readings: Computer Vision Fundamentals on Google Cloud

Here are the assembled readings provided in Module 3.

Module 3: Custom Training with Linear, Neural Network and Deep Neural Network models

- Lesson 1: Introduction
  - TensorFlow dataset
- Lesson 3: Reading the Data
  - tf.io
  - tf.image
  - tf.data.Dataset
  - tf.data.TextLineDataset
  - tf.data.Dataset.list_files
  - tf.data.FixedLengthRecordDataset
  - TensorFlow documentation
- Lesson 4: Implementing Linear Models for Image Classification
  - tf.keras.Model
  - The Functional API
  - *Compile*
  - *Optimizer*
  - *Loss function*
  - *Metrics*
- Lesson 5: Neural Networks and Deep Neural Networks for Image Classification
  - Commonly Used Activation Functions
  - Model.compile
- Lesson 6: Deep Neural Networks with Dropout and Batch Normalization
  - universal approximation theorem
  - The Geometric Occam's Razor Implicit in Deep Learning
  - Dropout: A Simple Way to Prevent Neural Networks from Overfitting
- Additional Resources
  - Machine Learning on Google Cloud