

Module 4 Readings: Computer Vision Fundamentals on Google Cloud

Here are the assembled readings provided in Module 4.

Module 4: Convolutional Neural Networks

- Lesson 2: Convolutional Neural Networks
 - [Neocognitron](#)
 - [Visual nervous system](#)
 - [Deep Learning](#)
 - [Initial CNN architecture](#)
 - [AlexNet](#)
 - [The concept of hierarchy](#)
 - [Google's Own Inception network](#)
- Lesson 4: CNN Model Parameters
 - [2-dimensional convolution layer in Keras](#)
- Lesson 5: Working with Pooling Layers
 - [Pooling layers in Keras](#)
- Lesson 6: Implementing CNNs on Vertex AI with pre-built TF container using Vertex Workbench
 - [National Institute of Standards and Technology](#)
 - [Softmax Function](#)
- Lab intro:
 - [MNIST](#)
 - [tf.keras API](#)
 - [tf.image.stateless_random_brightness](#)
 - [tf.image.stateless_random_contrast](#)
 - [tf.image.stateless_random_crop](#)
 - [tf.image modules for data augmentation](#)
 - [tf.py_function](#)
 - https://keras.io/api/layers/preprocessing_layers/image_preprocessing/
- Lesson 5: Transfer Learning
 - [MobileNet](#)