**Exercise 2 deadline 6 November 2024**

Use Tensorflow and send your report to  Prof. Eduardo Bayro

Do not send big files only:

A short analysis about this model, how it works and its advantages with respect a simple multi-layer perceptron on one layer. The role of the training rule. Results: some classified examples, training duration, validation curves and test efficiency.

Download the program and related files from

<https://drive.google.com/drive/folders/1WVl3p5dH4wtXb2nh1ZUTV6vtH4okqD-_?usp=sharing>

**Feedforward Neural Network**

To classify dogs and cats.

Architecture:

- Input layer (Image vector)

- 3 fully connected hidden layers

- Output layer (According to the number of classes)

Tested on:

- Ubuntu 16.04

- Python 3.5 and 3.7

Requirements:

- Matpotlib: pip3 install matplotlib

- OpenCV: pip3 install opencv-python

- TensorFlow 1.15 (Release for CPU-only): pip3 install

tensorflow =1.15

**For Windows:** install an IDE, Python and the libraries. Check in YouTube for Tutorials how to install these *software libraries and programs* in Windows.