Image classification on CIFAR-10

using basic Feed-Forward Neural Networks

# Digit recognition example (lecture)

## Description

## Explanation

# The Cifar-10 dataset

## Description

## Loading and inspection

## (possible) Preprocessing

## Statistics and Graphs

# Implementation of basic NN

## Model design

* 2 categories
* 1 in, 1 out
* extendable

## Evaluation of first results

# Adaptations

## 5 Categories

## 10 Categories

## Evaluation of performances

# Improvements

## Adding and changing Layers

## Hyperparameter adjustments

## Explanation of most note-worthy improvements

# Final Performance evaluation

## 2 Categories

## 5 Categories

## 10 Categories

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# References

# Annex