

Professional training

Number recognition

Summary: In this Module you will learn about TO DO.

Version: 1.00

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Chapter I

A word about this Professional training

Welcome!

You will begin the first module of this Professional trainin of cloud computing. We want to both show you what the cloud is , and at the same time experience peer-learning, an educational model of 42.

Rather than giving you a course with only one solution for each problem, and which will probably be outdated in a few years, we have chosen to put you in a peer-learning situation. You are going to look for the elements that could serve you for your challenge, sort out those that are actually interesting by testing and manipulating them. To do this, discuss with others, exchange your points of view, find new ideas together, and finally test for yourself.

Peer-evaluation is a key moment to discover other ways of doing things, as well as special cases that you have not thought of and that could undermine your program. Like different clients who don't pay attention to the same things, each reviewer will be different from the last. And who knows, you might have made new acquaintances for later collaborations.

At the end of this cursus, you will not have done the same things as the other participants, you will not have validated the same projects, you will have chosen to do one challenge rather than anotherand that's normal! It's both a collective and a personal experience. Everyone will benefit from what he or she experiences during this time.

Good luck to all.

Chapter II Introduction

What this Module will show you:

- Discovery of available cloud providers.
- Research information on the advantages and disadvantages of each provider.
- Creation of a free account that will be useful for the rest of these modules!
- TO DO

Chapter III

General instructions

Unless explicitely specified, the following rules will apply every day of this Professional training.

- This subject is the one and only trustable source. Don't trust any rumor.
- This subject can be updated up to one hour before the turn-in deadline.
- The assignments in a subject must be done in the given order. Later assignments won't be rated unless all the previous ones are perfectly executed.
- Be careful about the access rights of your files and folders.
- Your assignments will be evaluated by your peers.
- You <u>must not</u> leave in your turn-in your workspace any file other than the ones explicitly requested By the assignments.
- You have a question? Ask your left neighbor. Otherwise, try your luck with your right neighbor.
- Every technical answer you might need is available in the man or on the Internet.
- By Thor, by Odin! Use your brain!!!

Chapter IV

Tools

	Exercise	
/	Tools	
Turn-in directory : $ex/$		
Files to turn in : None		
Allowed functions : None		

Pour cette formation nous allons utiliser colab c'est un outils en ligne avec tout deja pres instaler.

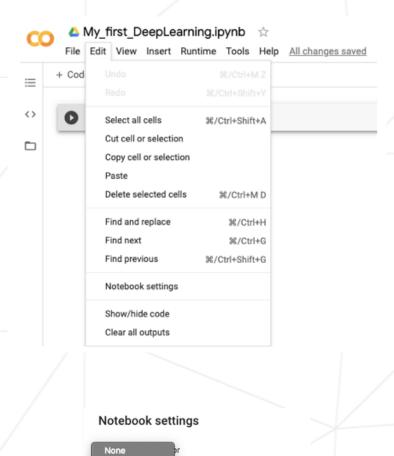
Vous avez peut-être installé Anaconda sur votre ordinateur local et utiliser le note-book Jupyter. Si tel est le cas, vous apprendrez rapidement à utiliser Google Colab. Colab est un environnement de notebook Jupyter gratuit qui s'exécute entièrement dans le cloud. Il n'y a pas de processus de configuration. Les blocs-notes que vous créez peuvent être modifiés simultanément par les membres de votre équipe, tout comme vous modifiez des documents dans Google Docs. Colab prend en charge de nombreuses bibliothèques d'apprentissage automatique populaires. Google Colab a déjà des bibliothèques préinstallées telles que pandas, numpy, Tensorflow, Keras, OpenCV, vous n'avez donc pas besoin d'exécuter «pip install» par vous-même.

Vous pouvez commencer a faire le tutoriel sur la page d'acceuil



You need have a mail google to use colab

Enable GPU computing (for PyTorch for exemple):



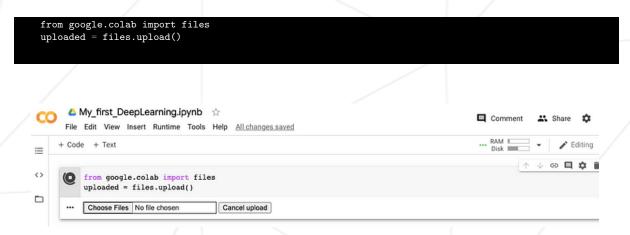
telecharger les sources poc_formation_pro.ipynb et train.csv sur l'intra (TO DO on met ces sujets sur l'intra ?)

Omit code cell output when saving this notebook

CANCEL

SAVE

a GPU unless you need one. Learn more





You can use shift + enter to execute the cells

TO DO passer google en anglais et faire des captures d'ecrans de colab

Chapter V Exercise 02

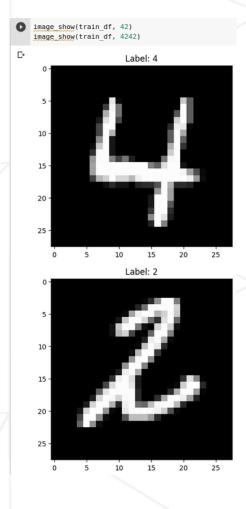
	Exercise 02	
	Tools 02: 0-1 Number recognition	/
Turn-in directory : ex		
Files to turn in : poc	/	
Allowed functions: No	one	

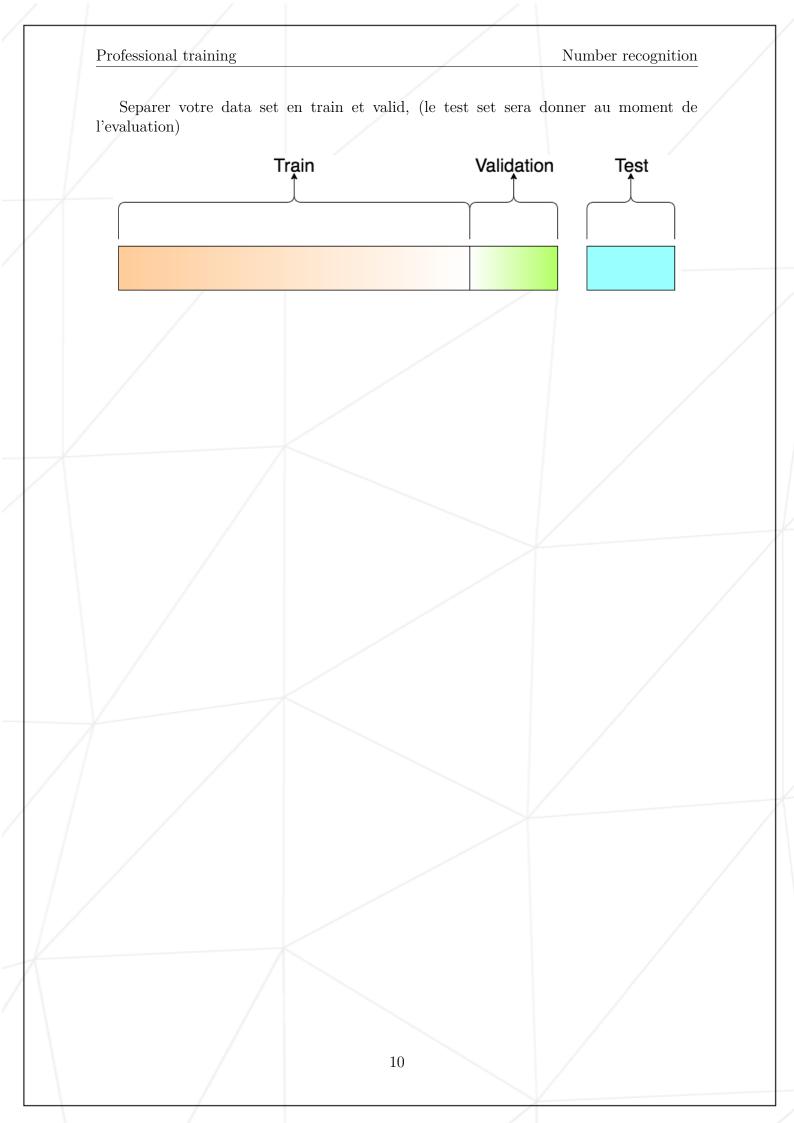
Chapter VI

Exercise 02

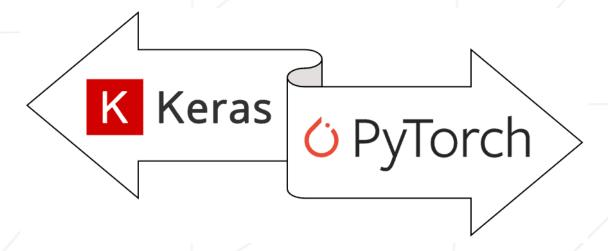
	Exercise 02	
/	Tools 02: 0-9 Number recognition	
Turn-in directory : $ex02/$		
Files to turn in : My_firs		
Allowed functions: None	/	

Data exploration: ecrivez du code pour afficher les images souhaiter de votre data set

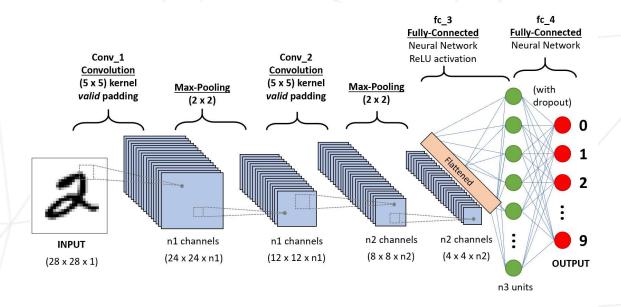




Creer un reseau de neuronnes avec Keras ou pytorch (vous pouvez faire l'exo avec les 2 librairies si vous voulez/avez le temps, la libraire Keras est plus simple pour les debutants)



Comme dans le shema ci dessous creer votre propre reseau de neurones, avec les couches demander.



Chapter VII

Bonus part

If you have some time, you can try to validate this little bonus. It is not mandatory, so don't waste too much time doing it.

So you have created your Readme.md file, but why use this md extension?

We invite you to try to understand what is the format used in general with this extension. Once you understand what the format is, you can adapt your file accordingly.



You will need to use special characters, there are many resources online to make your rendering visible if necessary.



The bonus part will only be assessed if the mandatory part is PERFECT. Perfect means the mandatory part has been integrally done and works without malfunctioning. If you have not passed ALL the mandatory requirements, your bonus part will not be evaluated at all.

Chapter VIII

Submission and peer-evaluation

- Create a professional_training folder at the root of your home, and move around in it.
- Create a new module00 folder and navigate to it.
- From now on, all exercises should be in the correct folder rendering. Exercise 00 in the ex00 folder, Exercise 01 in the ex01 folder, etc ... you get the logic.



Please note, during your defense anything that is not present in the folder for the day will not be checked.