**ML Academy - Project 2 Overview**

**Abstract:**

The main goal of this project is to make you feel familiar with Deep Learning applied to Computer Vision problems.

**Description:**

Vehicle License plate detection and recognition is a well-known challenge that has been tackled by many computer-vision labs and companies. However, each country has its own specific license plate formats. This challenge is targeting regular Tunisian license plates. The data provided for this challenge is composed of two datasets:

* A set of vehicle images (900 images) taken from the internet and annotated manually. The annotations are the coordinates of the bounding box containing the license plate.
* A set of license plate images (900 images) where the annotations are the text written in the license plate.

**Data Problem:**

The objective of this challenge is to detect the vehicle’s license plates then recognize the characters in each license plate. The solution will then be used to detect vehicle license plates in traffic cameras.

**Project Steps:**

The project will be hold in 3 phases: **(2 weeks)**

* **Exploratory Data Analysis** (EDA) phase, where you are supposed to work on understanding, clearing, sorting and extracting important features from the data provided.

**Estimated Task Time:**

* **Modeling** phase, where you will be able to use all the work done in EDA in order to create your own DL model (or models).

**Estimated Task Time:**

**Submission:**

Make sure that you fill this form on the deadline: <https://forms.gle/ay5ZBZfLUT6A2t8J7>,

and that you gave access permissions to all the trainers on your final Colab.

**Materials:**

* **Data: (**[**https://drive.google.com/drive/folders/1RjTH1z69Czv-HYZLo5RTh0HHTSkFRzJh?usp=sharing**](https://drive.google.com/drive/folders/1RjTH1z69Czv-HYZLo5RTh0HHTSkFRzJh?usp=sharing)**)**

This drive folder contains the dataset splitted into train and test sets along with a Readme txt file describing all the necessary information you need to know about the variables**.**

**Rules:**

* Do not cheat! You are here to learn
* Your work will be evaluated as a team
* We will evaluate and check your progress on each phase of the assignment
* Final evaluation be mainly on:
  + 45% Modeling
  + 25% Accuracy of predictions
  + 15% Quality of Code
  + 15% Team Work