**Real counterfeit detection**

Hi,

In continuation of the previous work -

We want to make a program that knows to detect real counterfeit in a good accuracy with a mobile phone's camera. (no need to implement the mobile phone just, the program should be able to get a path to a picture and to detect it).

There is no dataset of fake bills and only original bills.

Link to the full dataset you can find here:

<https://drive.google.com/file/d/16X0LfTWnrhIe7KXq8WRCJ0t4DRRQc2U8/view?usp=share_link>

Data should be split into 70/20/10.

Before training the model, need to apply Weiner and Gray scale filters on the dataset, then training the model, please try as much as you can to take some screenshots during model training

We would like to use Yolov5 as the model for the machine learning.

the finished program should be able to receive a banknote (as a new picture), calculate in percentages (also by applying Weiner and Gray scale filters) how certain the banknotes is real

For example: 80% that the counterfeit is original.

Please set no threshold since we want to see any result even if it’s very low number

The program should be offline, no internet is needed to run it (even though if there are any extra libraries that required is fine)

Please assume that we don’t have anything on our side and we need to make sure we will able to run it and to demonstrate – so the program need to be able to run 100% without any problems on our side that means we need all files that are relevant such as SVM, PKL and anything else if needed that I didn’t mention, also please send us all code lines that you wrote to made the PKL or any line of code that you using during the process or links to external sources if they were used

In our demonstration we will take a photo of new real banknotes and a fake one and we will send it to the program to see the results with the program – so we need to make sure that will happen

**Please don’t hesitate to task us anything if there is any problem, we will glad to answer!**