Computer Vision. Project

Dates	@July 4, 2021 → July 7, 2021
Finished	☐
Module	4
Time spent, hours	
Type	📌 Project

Project description

The supermarket chain Good Seed would like to explore whether Data Science can help them adhere to alcohol laws by making sure they do not sell alcohol to people underage. You are asked to conduct that evaluation, so as you set to work, keep the following in mind:

- The shops are equipped with cameras in the checkout area which are triggered when a person is buying alcohol
- Computer vision methods can be used to determine age of a person from a photo
- The task then is to build and evaluate a model for verifying people's age

To start working on the task, you'll have a set of photographs of people with their ages indicated.

Project Instructions

1. Pass a quiz to verify your understanding of the project statement.
2. Perform exploratory data analysis to get an overall impression of the dataset.
3. Train and evaluate the model (it needs to be done on the GPU platform).
4. Combine your code, output and findings (from the previous points) in the final Jupyter notebook.
5. Make conclusions of the model evaluation, add them to the notebook.

6. Project reviewers will review your final notebook.

Project Evaluation

We've put together the evaluation criteria for the project. Read them carefully before moving on to the task:

- Have you followed all the steps in the instructions?
- How did you analyze the data?
- How did you prepare the data for training/testing?
- How did you choose parameters for a neural network model?
- What are your findings and conclusions?
- Have you kept to the project structure?
- Have you kept the code neat?

Don't forget to consult your chapter summaries and takeaway sheets as you tackle the project.

Good luck!