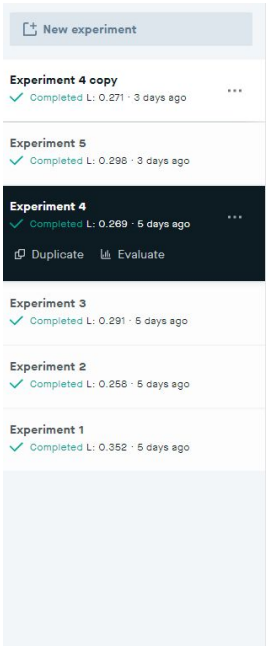
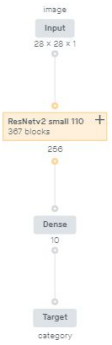
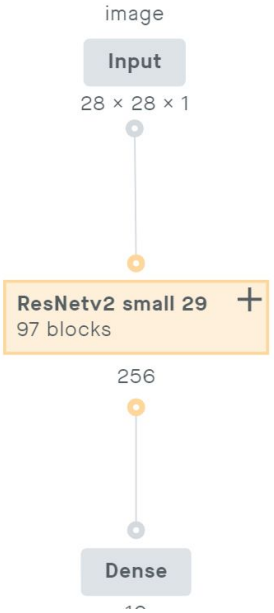
LAB 8

Advanced tools

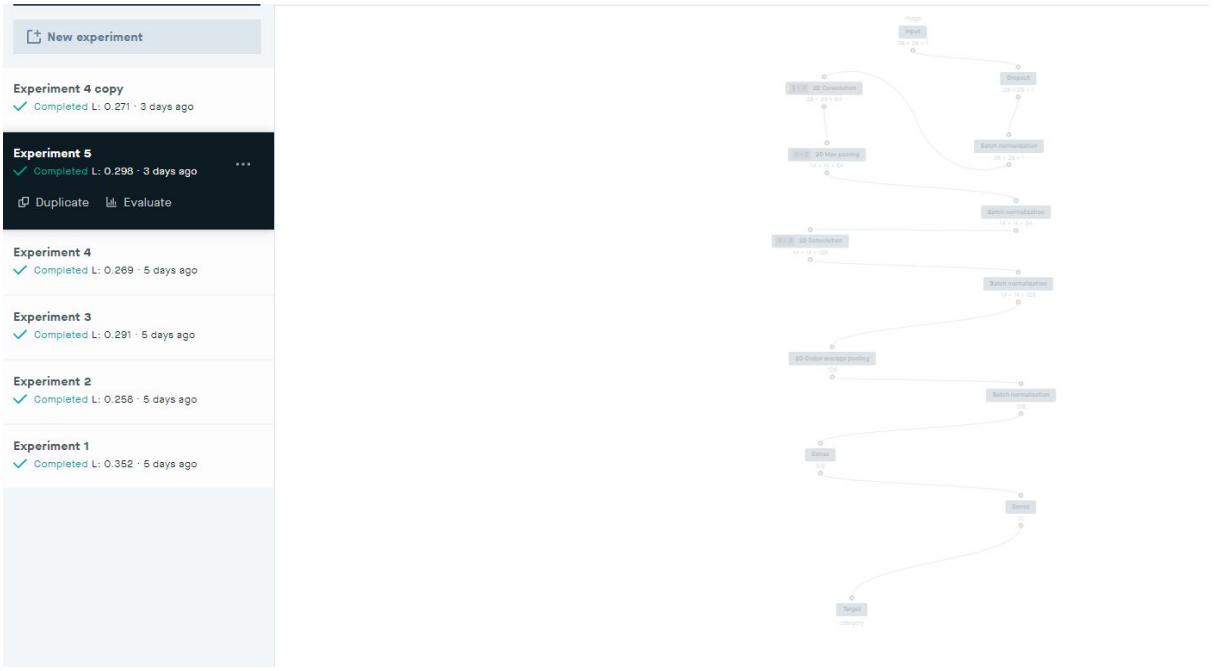
22/10/2019

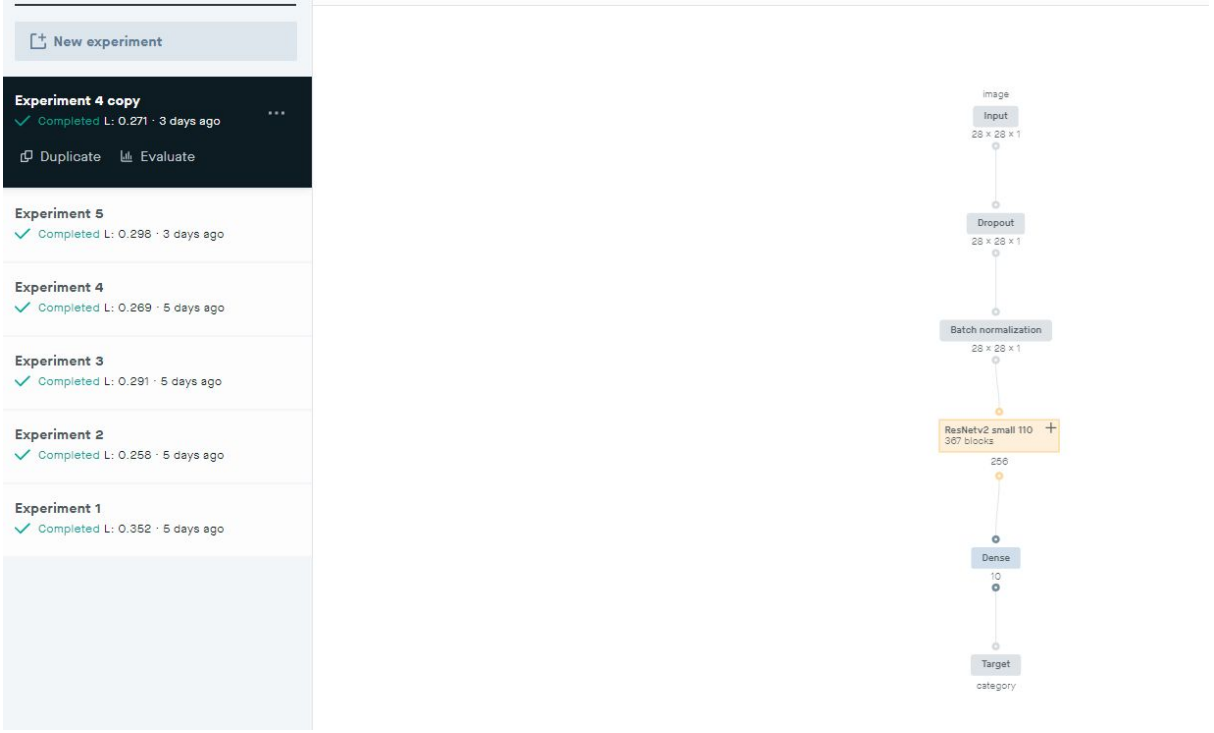




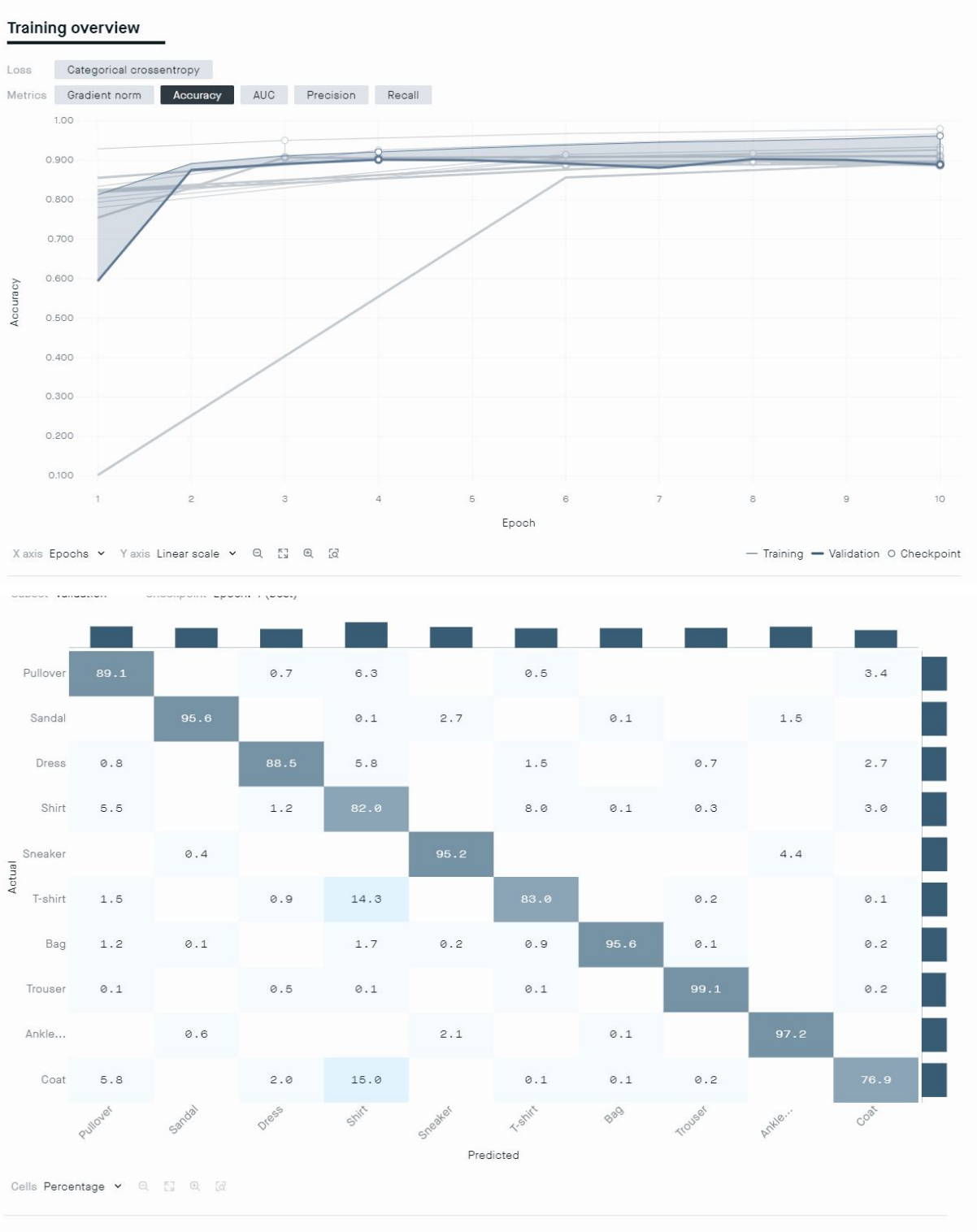


At the start I tried different predefined model from the tool to understand what is happening and why, first i tried the simple CNN , RestNetv2 small 29 and RestNetv2 small 110 and seen different values and accuracies in every single one of them and the best was RestNetv2 small 110 and RestNetv2 small 29 after that i added Dropout and Batch normalization to drop the empty values and normalize the data to get better test and train data from CNN and RestNetv2 small 110





After that I got the best accuracy for 0.909 and deployed that to use in my program



To run my code :
python LAB8.py <ModelURL> <path to the image>
Example:
python LAB8.py
https://a.peltarion.com/deployment/24168f64-d0b1-4b4f-acce-58c7e621f18e/forward
77b202f8-3ffc-4d4a-a98c-98c882450e9f test.png
And the resualt from the running the program is {'category': {'Pullover': 0.99570894, 'Sandal': 2.4619246e-06, 'Dress': 4.938628e-06, 'Shirt': 0.0005880184, 'Sneaker': 2.113086e-06,

'T-shirt': 0.002553356, 'Bag': 2.2570195e-05, 'Trouser': 5.213336e-06, 'Ankle boot': 3.0165338e-06, 'Coat': 0.0011092997}}

To see the code check the LAB8.py in the folder