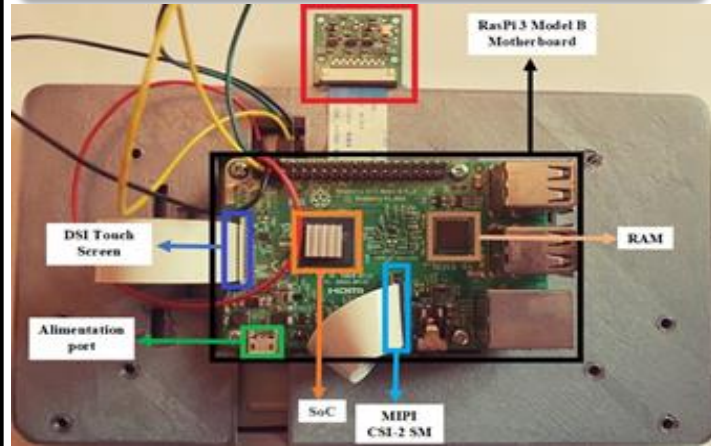




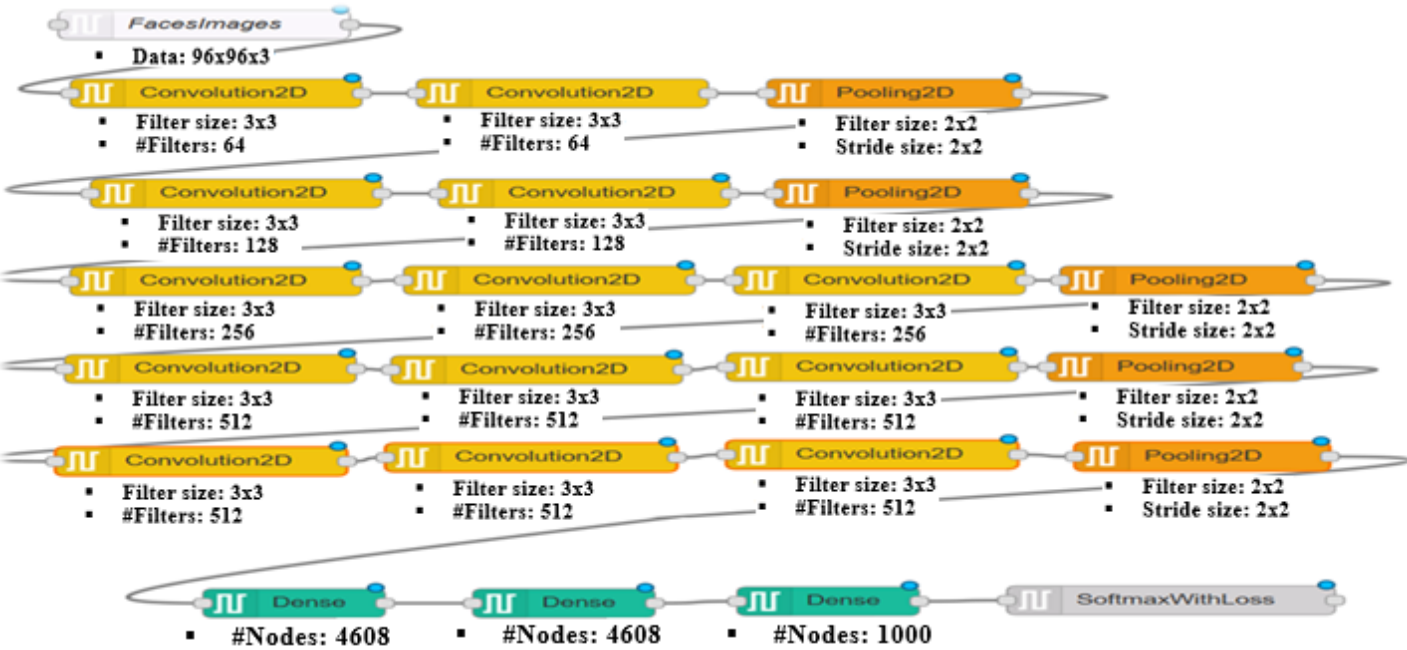
Introduction

Safety is one of the most important aspects of a smart city. In this regard, we propose an embedded system called PubFace, which uses the CNN model trained from scratch on facial celebrity images to identify the "Person of Interest" in public space. This is done by tuning this model on new dataset comprising 5000 real images of 1000 different identity collected from social media; as Facebook and Instagram, after getting permission from the persons of interest to collect their facial images and be used in this scientific research project.

PubFace



The CNN Model



Results



Closing Remarks

The number of Facebook users in Morocco is more than 17,000,000. PubFace is could scan billions profile images of Facebook in real time. Through a database that we have built, until it found a match. Besides, PubFace is able to link most faces photos (even from a side view as well as when the person is directly facing the camera in the picture) with a profile on the social network. So, PubFace system can identify correctly the person of interest ?