BVRIT HYDERABAD
College of Engineering for Women
Department of Information Technology
Major Project - Academic Year 2019-20

TEAM 17

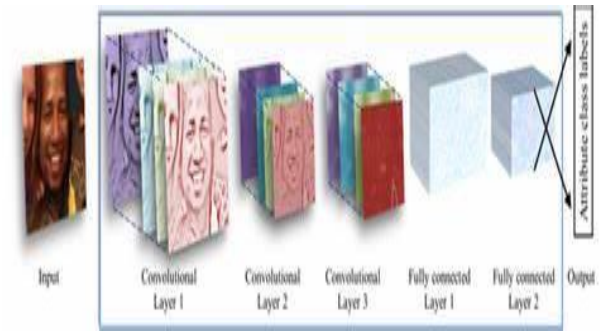
AGE AND GENDER CLASSIFICATION

Abstract

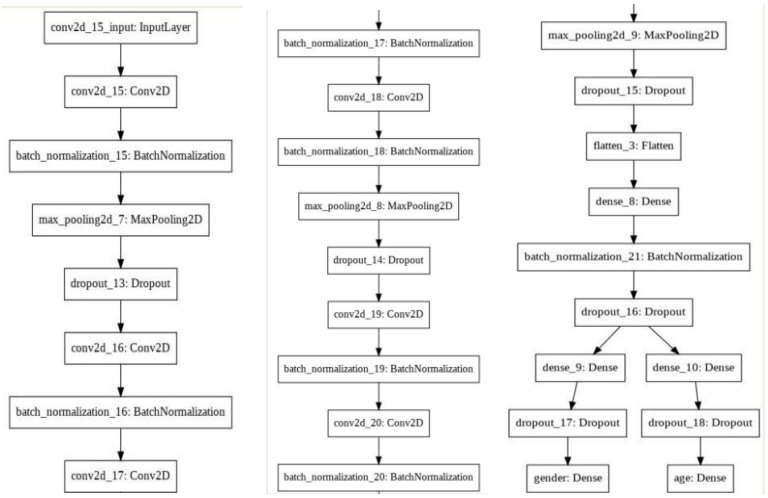
Age and gender play fundamental roles in social interactions. In this age and gender classification, we will use Convolutional Neural Networks (CNN) and Open CV to accurately identify the gender and age of a person from the image of a face. The predicted gender may be one of 'Male' or 'Female', and the predicted age may be one of the following ranges - (0 – 5), (6 – 10), (11 – 15), (16 – 20), (21 – 25), (26 – 30), (31 – 35), (36 – 40), (41 – 45), (46 – 50), (51 – 55), (56 - 60), (61 – 100). The steps we follow are detect the faces, classify into Male/Female, classify into one of the 13 age ranges given, put the results on the image and display it to the user.

Modules

Face Detection
Classify the age and gender



Architecture



Tools and Technologies

- **Image Classification**
- **Google Collab**

Conclusion and Future Scope

This project provides approach for classifying the images into respective age and gender classes with quality output. We have presented our method for age and gender classification based on deep Convolutional Neural Networks. Two important conclusions can be made from our results. First, CNN model is efficient for image classification. Second, increase in the size of dataset will be capable of substantially improving results. The work includes processing of RGB color images, in which RGB images gives more accuracy i.e., gender accuracy is 100% and age accuracy is 91.75%. In future, we will try to detect emotions of the persons along with the age and gender that is to include different emotions into account.

Guide

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