Project Details

**Project Description**

Recognize the gender and age of an individual from a single image of a face.

Let start-

1. **Python-**Python is easy to learn and work on with the language. It is broadly useful programming.
2. **OpenCV -**OpenCV is Open Source used for Computer Vision and Machine Learning library. This library is fit for preparing ongoing pictures and recordings while likewise flaunting explanatory capacities. It bolsters the Deep Learning systems TensorFlow, Caffe, and PyTorch.
3. A **Convolutional Neural Network**is a profound neural system (DNN) generally utilized for the motivations behind picture acknowledgement and preparing and NLP.

Algorithm Used :

Regression Algorithm :



**20 years**

**Classification Algorithm**

0-2 : 0.23%

4-6 : 0.10%

8-12 : 6.74%

15-20 : 4.16%

25-32 : 57.51%

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**Project Implementation-**

1. To start with, create the dataset and also make the necessary imports pf modules.
2. Now, classify into Male/Female -So we utilize the argparse library to create an argument parser, so we can get the image argument from the command prompt. We cause it to parse the contention holding the way to the picture to classify gender and age for.
3. For the face, age, and gender, we need to initialize protocol buffer and model.
4. Classify the age/gender into one of the 8 age ranges and initialize the mean values for the model and the lists of age ranges and genders to classify from.
5. Now load the networks for network configuration and trained weight.
6. Now suppose we classify the age/gender in the video, then let’s capture video stream in case you’d like to classify it on a webcam’s stream.
7. We need to feed the input/information and give the system a forward go to get the certainty of the two classes.
8. At that point, we do something very similar for age.
9. Now we need to add the gender and age texts to the final image and display it on the screen.
10. Now the model is ready.
11. Run and watch the result.