**Gender and Face Detection**

Summary:

This Python code uses OpenCV for face detection in a live webcam feed and predicts the gender of the detected faces. It employs a pre-trained Haar Cascade classifier for face detection and a deep neural network model for gender prediction. The gender prediction model is loaded from Caffe prototxt and caffemodel files. The code continuously captures frames from the webcam, detects faces, predicts the gender, and displays the result in real-time using matplotlib.

Libraries and Dependencies:

1. opencv-python: OpenCV is a computer vision library used for image and video processing. Install it using pip install opencv-python.
2. IPython: Used for interactive computing in the Jupyter Notebook environment. Install it using pip install IPython.
3. matplotlib: This library is used for creating plots and visualizations. Install it using pip install matplotlib.
4. numpy: A library for numerical operations in Python. Install it using pip install numpy.