***FACE ANALYZER - FACE ANALYSIS IN A VIDEO CALL THROUGH IMAGE PROCESSING***

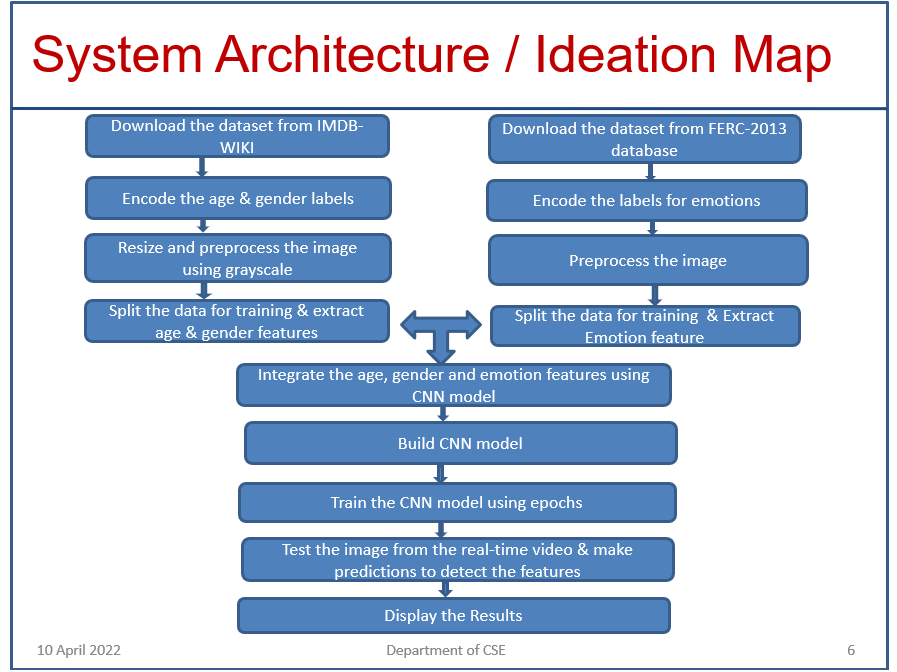
***ABSTRACT***

A real-time, GUI based automatic Emotion, age and Gender classification system is developed in this project. The system is implemented on a desktop with a Graphical User Interface. Initially it detects the faces in the images that are grabbed from a web camera. We describe a methodology and an algorithm to estimate the real-time age, gender, and emotion of a human by analysing the images of faces on a webcam.

Here we discuss the CNN based architecture to design a real-time model. We implement a general Convolutional Neural Network (CNN) for designing and validating our model by creating a real time vision which accomplishes the task of face detection, gender and emotion classification simultaneously. We got accuracies of 95% in the IMDB-/WIKI age and gender dataset and 66% in the FER emotion recognition dataset.

Emotion, gender and age detection of facial images in webcam play an important role in many applications like forensics, security control, data analysis, video observation and human-computer interaction. All the tools and operating, used to develop this system are opensource tools.

***IDEATION MAP***

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