Step involved in Face Detection process..

1. Creating a DB of people image (min 5 photos of different angle, with distortion, with Noice)
2. Capturing image from camera
3. Turing it to Grey scale image
4. Identifying the proper window of the Image for detection (e.g. Sliding Window Algorithm)
5. Applying Neural Network to identify the face
6. Displaying it on screen (Real time)

**Creating a DB of people image**

* Add couple of images having some Distortion, Noise, Low Resolution and taken from different angle.
* Turn it to Grey scale and save it into DB.

**Capturing the Image from Video Camera**

* Capturing the photos

**Neural Network part:**

Training Data: (5 photograph of a person from different angle)

Training data = 3 phots

Cross validation data = 1 photo

**Test data = 1 photo**

* A Database of couple of people with photos taken from various angle (e.g. 3 Different photos from different angle)
* Apply the Neural net to get the parameters to identify this particular Person

**Cross Validation Data:**

* Run the algorithm on Cross Validation data (1 photo) and verify the result
* Perform Error analysis if required and Tune the system

**Test Data:**

* Run the algorithm to test the performance on Test Data.
* Verify the result and tune it further if required.