**FF1 analysis**

**4 KNOWN FACES AND TEST SAMPLE OF 61 IMAGES**

--Performance With Tolerance As 0.5

without cnn and with resizing : 17s 174 faces

without cnn and without resizing : 100s 391 faces

with cnn and with resizing : 20s 39 faces ???

with cnn and without resizing : 232s 349 faces

—performance with tolerance as 0.6

without cnn and with resizing : 15s 174 faces

without cnn and without resizing : 100s 391 faces

with cnn and with resizing : 21s 39 faces ???

with cnn and without resizing : 231s 349 faces

**= as expected tolerance changing doesn’t play significant factor to determine processing speed**

**= with cnn model always keep “number\_of\_times\_to\_upsample” equal to 0 !!!!! …… otherwise processor overloads !!!!**

**= no resizing detects 2 times more faces for hog model ; 9 times more faces for cnn BUT takes 6x time for hog 10x time for cnn**

**??? cnn should have detected more faces….**

* **time managing - gnomon**

**4 KNOWN FACES AND TEST SAMPLE OF 266 IMAGES**

—Performance With Tolerance As 0.6

**WITHOUT CNN AND WITH RESIZING :**

Total faces detected= 425

Total faces recognized= 269

real 0m44.576s

user 0m51.541s

sys 0m3.085s

**WITHOUT CNN AND WITHOUT RESIZING :**

Total faces detected= 1197

Total faces recognized= 583

real 6m12.065s

user 6m15.784s

sys 0m15.806s

**WITH CNN AND WITH RESIZING :**

Total faces detected= 102

Total faces recognized= 70

real 1m7.671s

user 1m21.546s

sys 0m11.378s

**WITH CNN AND WITHOUT RESIZING :**

Total faces detected= 898

Total faces recognized= 459

real 15m22.525s

user 19m2.332s

sys 4m8.145s

KNOWN DIFFICULTIES——

1. THE COMPARE FACES CODE WILL GO WITH 1ST TRUE MATCH…..EVEN THOUGH MORE ACCURATE MATCHINGS MAY BE POSSIBLE.
2. MULTIPLE MATCHING MAY OCCUR DUE TO LESS CLEAR PHOTO COMING BEFORE MORE CLEAR ONE WHEN CONSIDERING A PARTICULAR FACE.

**FF2 WILL PERFORM FASTER THAN FF1 WHEN CONSIDERING REAL DATA SETS ( WITH LENGTH ~=1000)**