

Reconocimiento facial

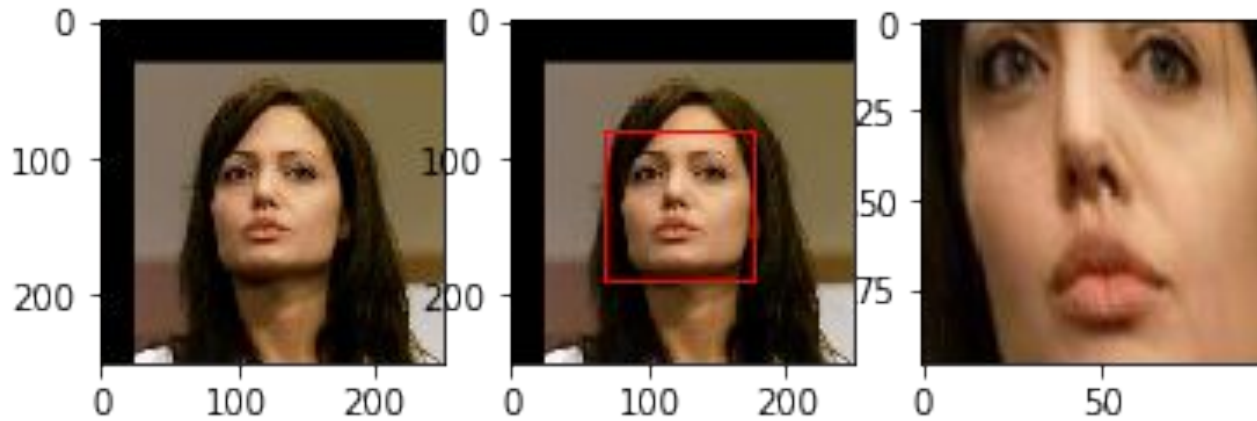
Diego Ramírez Vargas

Predictor_68_face_landmarks

Analiza 68 rasgos de la cara para recortar la cara.



Recortando la cara a 96x96



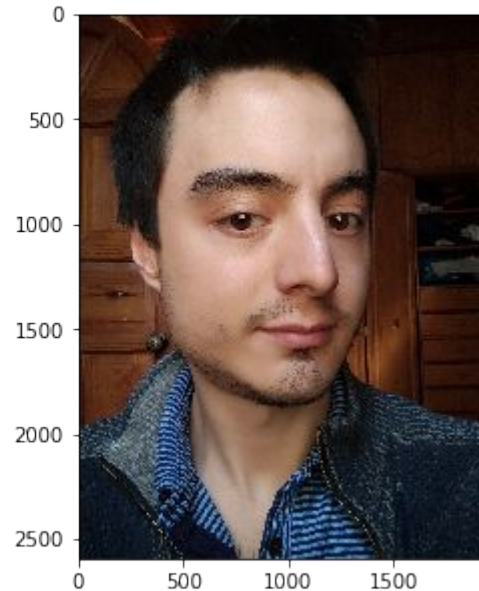
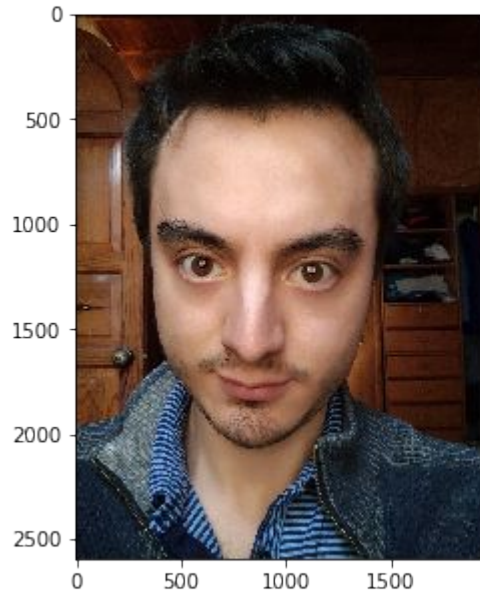
Procedimiento

Normalizar (255)

Vectorizar con predicción de CNN

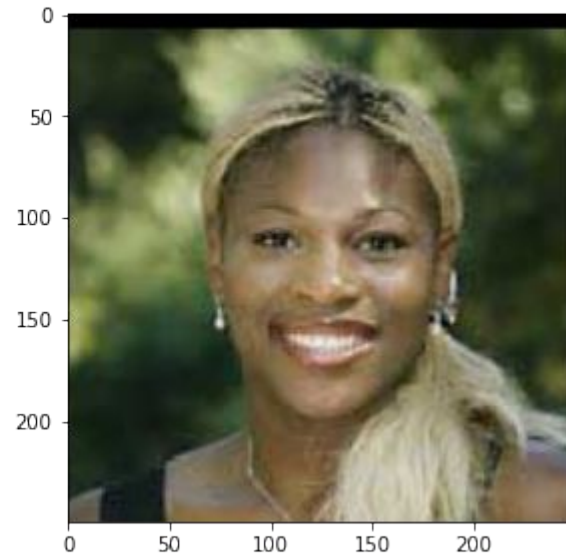
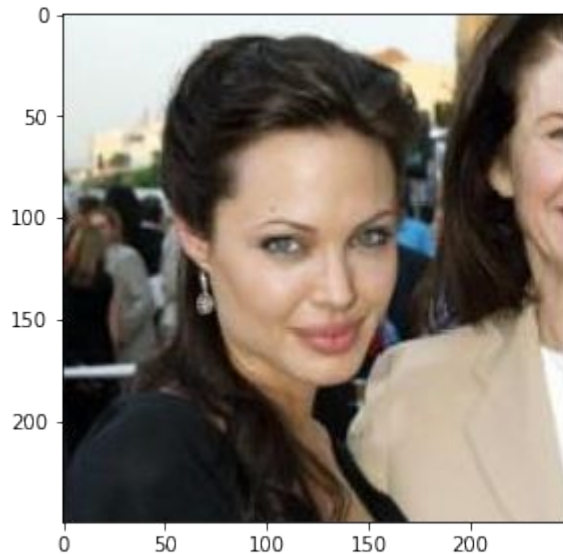
Fotos de la misma persona tienen distancias cortas

Distance = 0.14

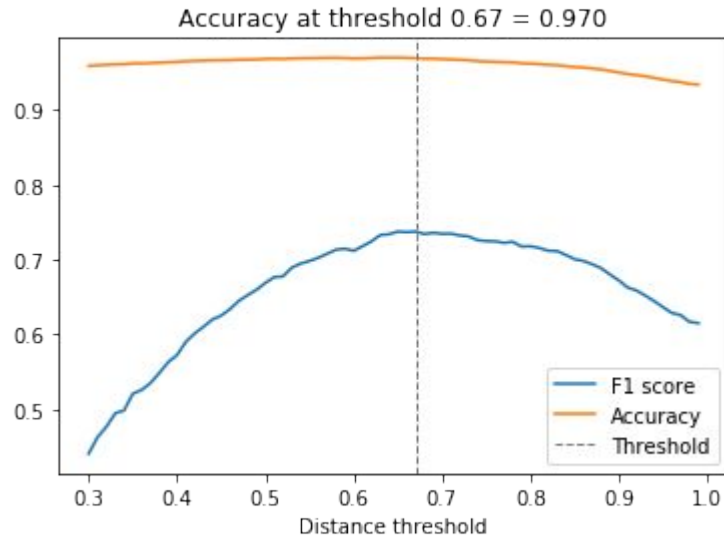


Fotos de diferentes personas tienen distancias grandes

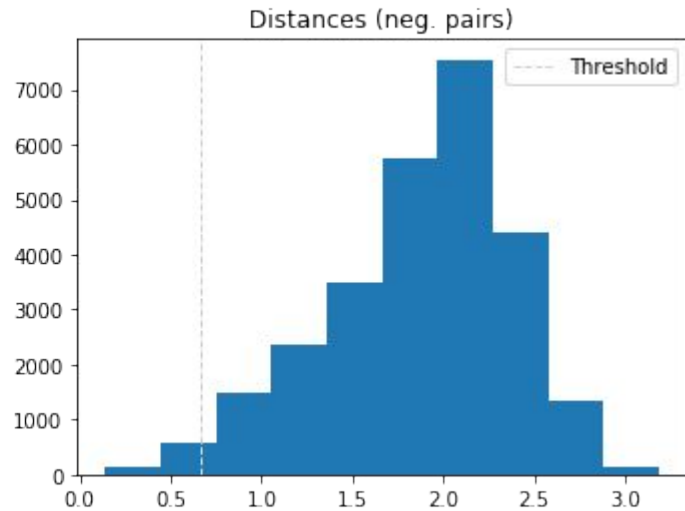
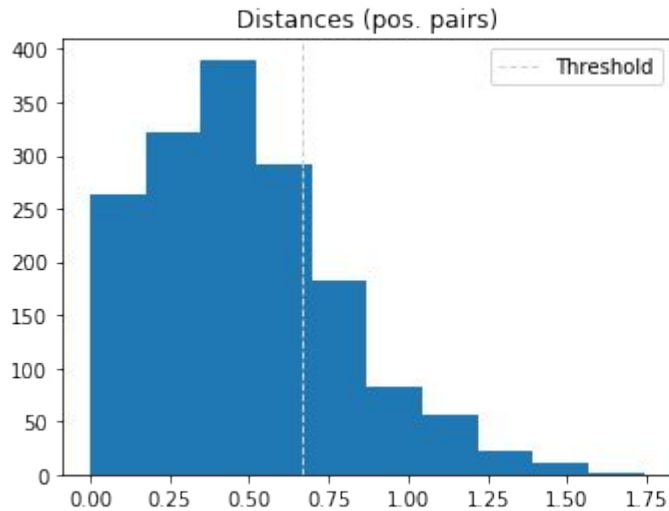
Distance = 2.10



Exactitud y precisión



Distribución de distancias de rostros de las mismas personas y de diferentes personas



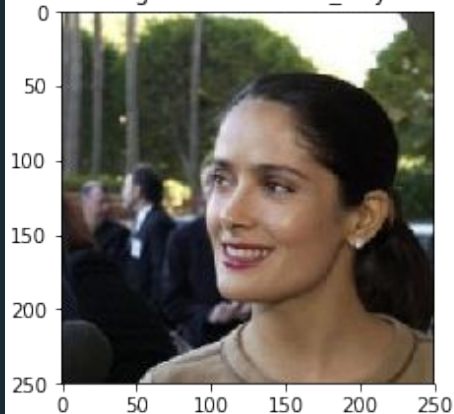
Dos métodos para clasificar

Usar los vectores para identificar a partir de entrenar dos métodos de machine learning

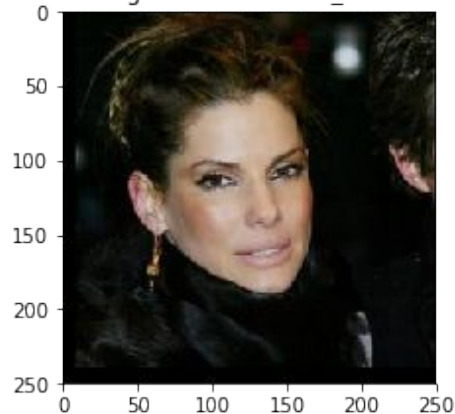
knn

svc

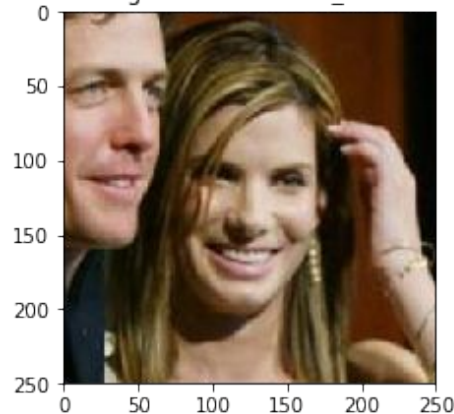
Recognized as Salma_Hayek



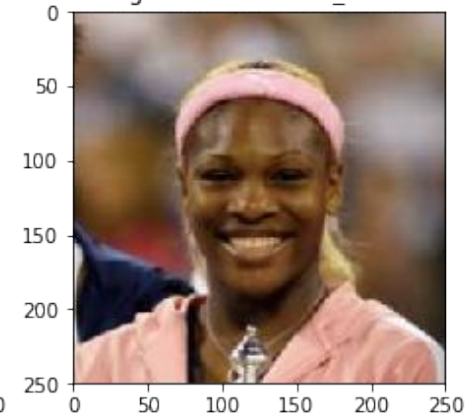
Recognized as Sandra_Bullock



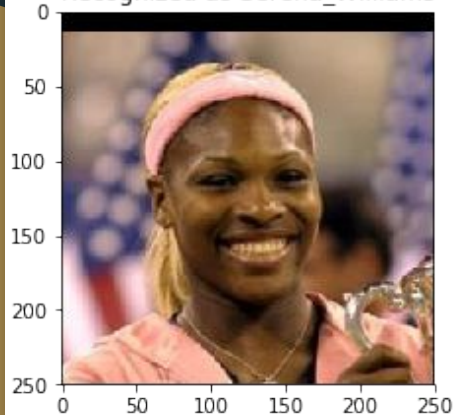
Recognized as Sandra_Bullock



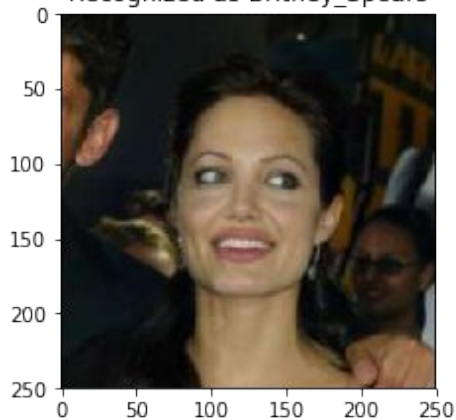
Recognized as Serena_Williams



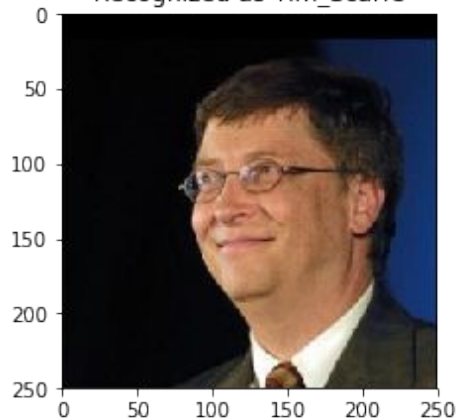
Recognized as Serena_Williams



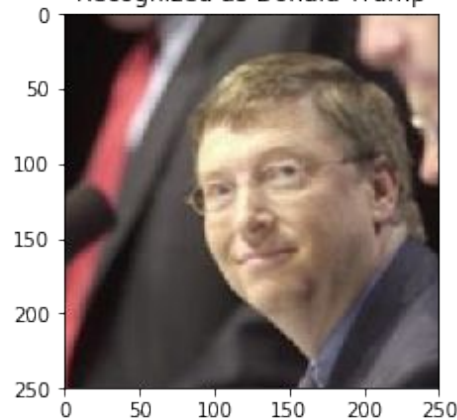
Recognized as Britney_Spears



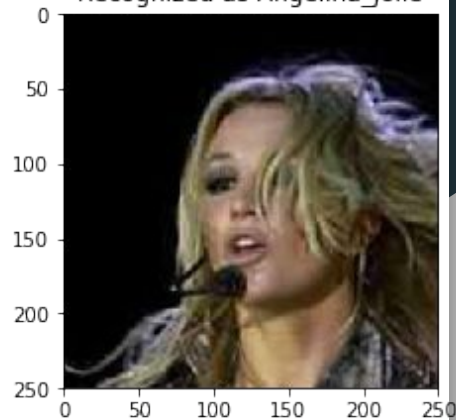
Recognized as Tim_Scarfe



Recognized as Donald Trump



Recognized as Angelina_Jolie



Recognized as Serena_Williams

