**Face recognition algorithms(Frontal Face)**

1. LDA(Linear Discriminant Analysis):

* Most accurate
* Less execution time
* Class based approach( Class is person and elements are the images of his/her face)
* Dimensionality reduction
* Uses fisher-faces
* Low error rates
* Works well in different brightness levels
* Works well with different facial expressions too
* Preferable for large dataset (PCA outperforms LDA when small dataset is used)

1. PCA with CNN and SVM

* Uses PCA with CNN and improves latency compared to CNN
* More accurate than just CNN
* Can use with SVM also to further improve accuracy
* pre-trained CNN model as a feature extraction
* PCA is applied to reduce feature dimensionality
* SVM is used as a classifier to perform the recognition
* High latency when implemented in real time

1. PCA(Principal Component Analysis)

* Dimensionality reduction by retaining variance between principal components
* Suitable with small dataset
* Uses eigen-faces
* Less latency compared to others except LDA

1. ICA(Independent Component Analysis)
2. CNN(Convolutional Neural Networks)
3. ANN(Artificial Neural Network)

FaceNet by google

4SF algorithm

Deepface

Openface

VGG face