In this review there will be a paragraph for each selected research paper and they will in order as in the references

In this research the main focus is about the history of face recognition technology . , it’s a biometric technology which is used for identifying people separately using facial features . in the beginning face geometry was the main focus . PCA and LDA was introduced between 1960s and 1990s. classifeirs like SVM,Adaboost , neural networks were invented during 1990s and 2010s .Deep learning technology has been in the action since 2010 .though these new technologies made huge difference to industry there were some challenges like pose , 3d modelling , expression changing .another thing was manual vs learned features .key technologies were PCA,LDA for facial feature extraction.SVM ,adaboost were the classifiers for face verification . when it comes evaluations benchmark datasets like LFW,CAS-PEAL-R1, megaface .accuaracy, rov curve auc measure discrimination ability were the matrices . through out this research paper it shows the development and the variation of the face recognition through out the years

when it comes to facial bio metrics it can be divided into two main parts face recognition and face detection .there are different types of developments, researches about these two methods . accuracies of different face recognition and detection techques were discussed in this research . Goofle and amazon are the leading companies which are researching for face recognition and detection. Datasets are the key thing to face recognition . in 2001 object detection using HAAR feature using cascade classifer was proposed. Its machine learning model which uses negative and positive images. Another important library is MTCNN which was written by github and ipacz. There are two methods for face detection in face recognition package hogg method and cnn method. There are perks and conns in these two while cnn method is more accurate but it take higher computational power . while hogg method is less accurate but its quick. Local Binary pattern (LBPH) also simple yet accurate method for facial recognition

in this research it shows accuracy about facial recognition techniques and introduction of a new dataset . the best face recognition models show a great accuracy of more than 99.8% on labeled faces in wild (LFW) dataset. To get such an accuracy these models were trained using large dataset which consists of millions of faces. In this research it discuss about a new dataset which has a it own rendering pipeline .this dataset has reduced the error rate by 52%. 256 per pixel were used to render these pictures. This syncface dataset has achieved 91.93 of accuracy and when it was tested with after mixing up with 2000 real pictures accuracy was 97.23%. with this new dataset synthetic to real domain gap has been clearly reduced error rate on LFW by 52.5% . it shows that this new data set is way better than GAN generated face to learn face recognition