Face Recognition Login System

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Introduction:

Facial recognition is a way of identifying or confirming an individual’s identity using their face. Facial recognition systems can be used to identify people in photos.

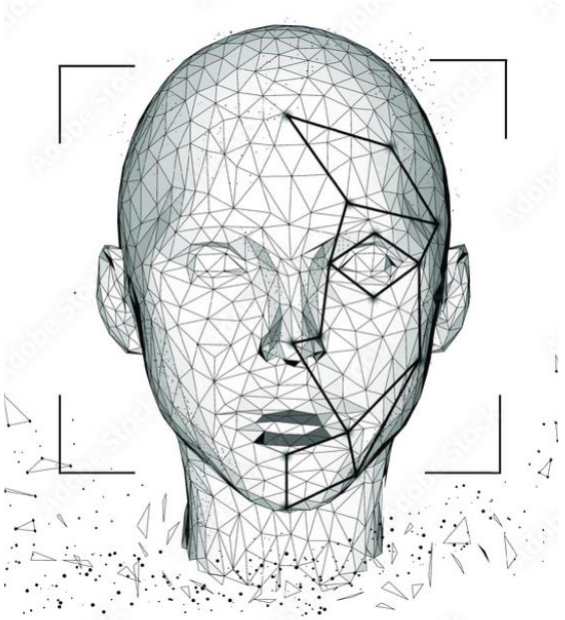
Facial recognition is a category of biometric security, Other forms of biometric software include eye retina or iris recognition.

OBJECTIVE

The **goal** of this project was to identify the main points of the face, including the points :

- around the eyes
- nose and mouth

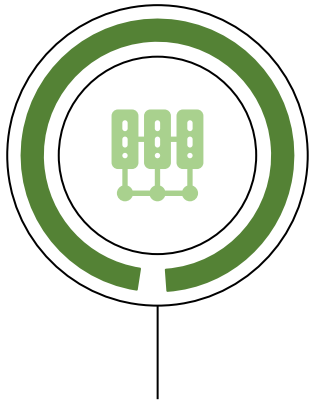
to be used identify or verify the identity of an individual using his face in the Absher system to facilitate the entry process.



Data Description

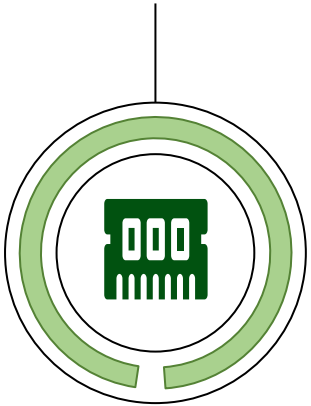
The data is obtained form Face recognition login system dataset in Kaggle has **7049** images

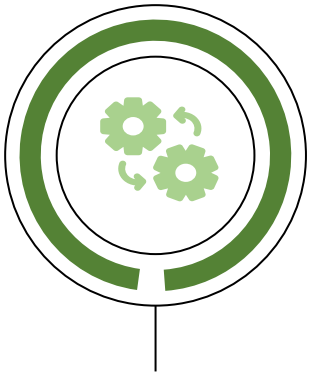
METHODOLOGIES



LOADING DATA

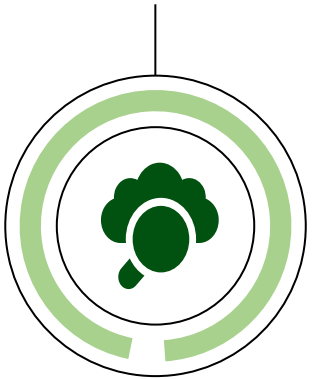
PREPOSSESSING



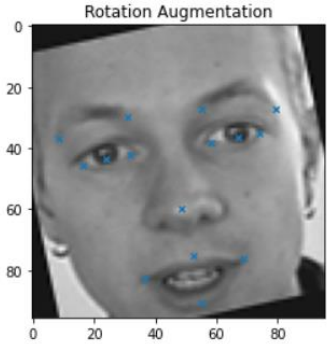


BUILDING MODEL

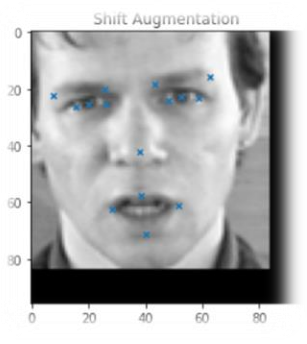
BEST MODEL



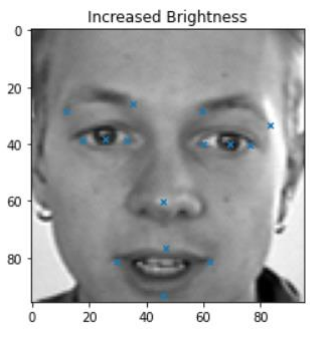
Augmentation



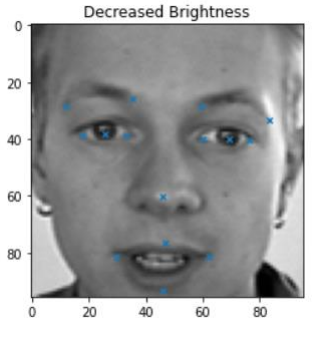
Rotation Augmentation



Shift Augmentation



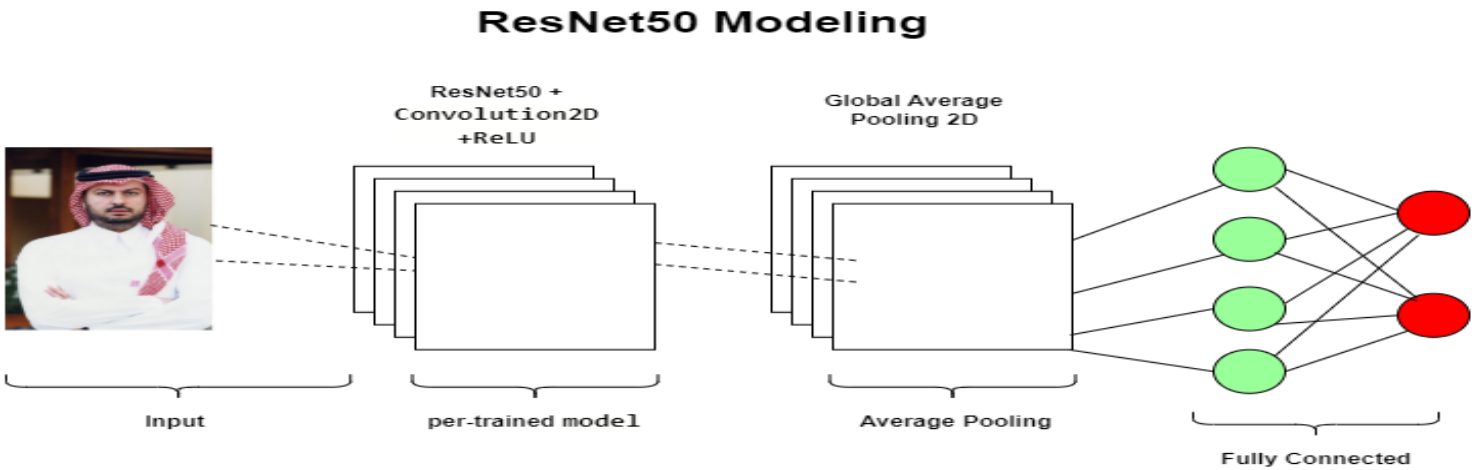
Increased Brightness



Decreased Brightness

Modeling

Base model

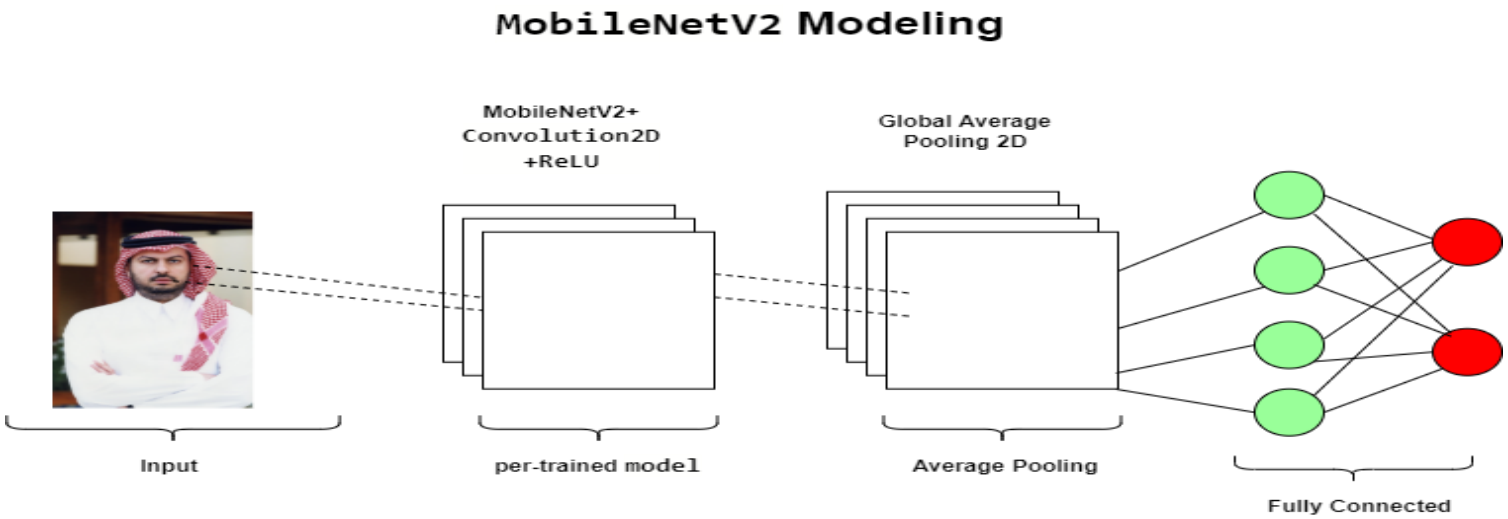


ACCURACY 0.96

VALIDATION ACCURACY 0.89

Modeling

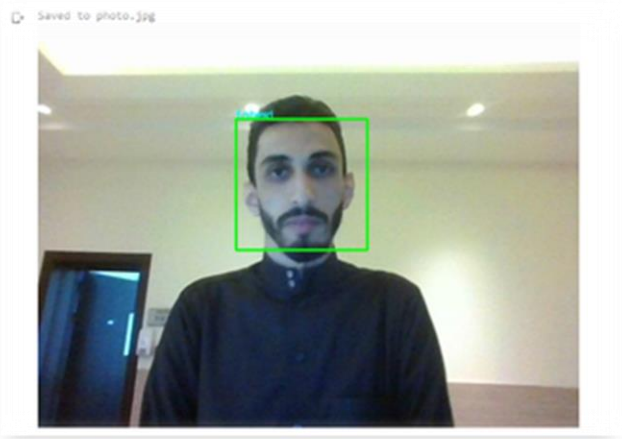
Our Best Models



ACCURACY 0.92

VALIDATION ACCURACY 0.92

Deployment

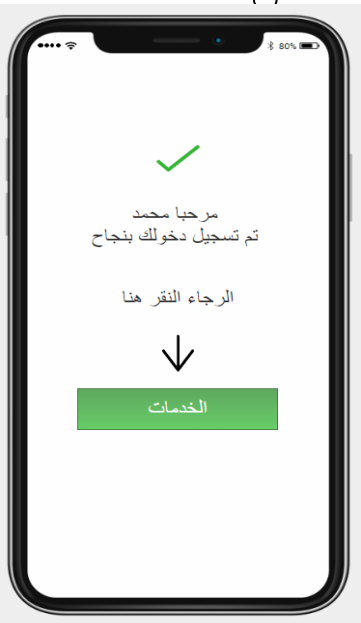

Saved to photo.jpg


Saved to photo.jpg
ممارسة المهارات مدى
الاجتماعية، والاقتصاد

Interface

مستخدم جديد

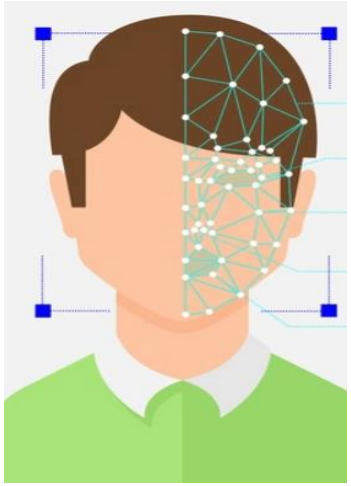
تسجيل الدخول



CONCLUSION

The Base model show overfitting between accuracy and Validation accuracy

The MobileNetv2 shows best result in the Validation accuracy

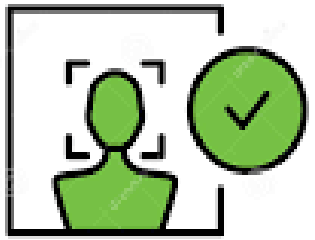


Future Work

Collect more images of niqabs.

Do more models by try different number of units and layers change the values of the hyperparameter.

THANK YOU



FACE ID APPROVED