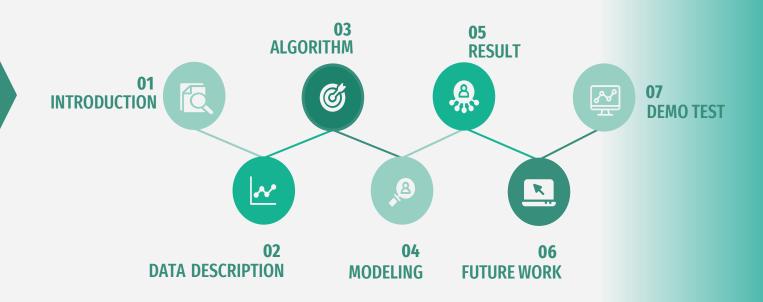


Tawakkalna App Face Recognition

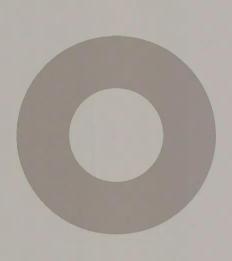
Presented by :Zainah, Ahad, Rawan

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INTRODUCTION



1 INTRODUCTION

Tawakkalna App was developed by the Saudi Data and Artificial Intelligence Authority (SDAIA) to assist the government in combating Covid-19. In total, Tawakkalna App offers 44 services to Saudi government ministries such as the Ministry of Health, Hajj, and Umra.

Through the use of Facial Recognition, this project intends to ensure the real identity of Tawakkalna users by checking if the picture matches the person's national ID. This is a security feature that can be used to recognize people's real identities in crowded areas such as Hajj and Umrah, where it is otherwise difficult to identify them.







DATA DESCRIPTION

This dataset contains 10 images of 40 distinct people with 400 images of their faces. Each image has the same background and size. These images will be our main method of reference throughout this project. From them, subsets will be created for Testing and Training.



ALGORITHM

This study aims to perform facial recognition using four different classification models to determine which one is the best to use. The data splitted into:



Training



Testing



MODELING

CNN model experiment

5 layers20 Batch size45 Epochs

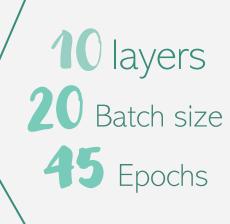


95 % Accuracy

91 % Validation Accuracy

MODELING

CNN model experiment





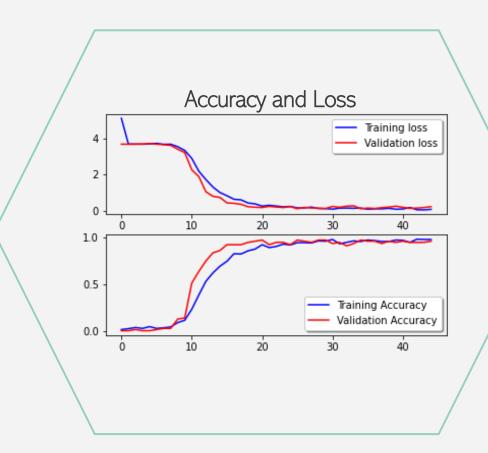
97 % Accuracy

92 % Validation Accuracy





Our best model it's CNN with 10 layers.





DEMO TEST





Future Work

Iris Recognition biometric recognition systems which identify people based on their eyes and iris.





THANKS

For Your Listinig ..

Do you have any questions?

Presented by: Rawan, Ahad, Zainah