Predicting Age Of Image By CNN

Presented by

Aesha Bakheet Aljohani

Table **of** Contents

Introduction

Dataset & EDA

Tools

Methodology

Future Work

Introduction

in this project we will predict the age by the face image, let's see if we can correctly predict the age of a person.

Dataset & EDA

This dataset is from **Kaggle** and this CSV includes of **27305** rows and **5** columns.

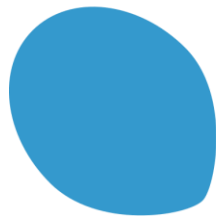In the **EDA** cleaning the data and prepare it for the modeling.

Tools

Methodology

```
Model: "sequential"
_____
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 46, 46, 128)       1280

 max_pooling2d (MaxPooling2D  (None, 23, 23, 128)      0
 )

 batch_normalization (BatchN  (None, 23, 23, 128)      512
 ormalization)

 conv2d_1 (Conv2D)           (None, 21, 21, 64)        73792

 max_pooling2d_1 (MaxPooling  (None, 10, 10, 64)       0
 2D)

 batch_normalization_1 (Batc  (None, 10, 10, 64)       256
 hNormalization)

 conv2d_2 (Conv2D)           (None, 8, 8, 32)          18464

 max_pooling2d_2 (MaxPooling  (None, 4, 4, 32)         0
 2D)

 batch_normalization_2 (Batc  (None, 4, 4, 32)         128
 hNormalization)

 flatten (Flatten)           (None, 512)               0

 dense (Dense)               (None, 256)               131328

 dense_1 (Dense)             (None, 64)                16448

 dense_2 (Dense)             (None, 1)                 65

=================================================================
```

Convolutional Neural Networks (CNN)

```
===================================
Total params: 242,273
Trainable params: 241,825
Non-trainable params: 448
_____
```
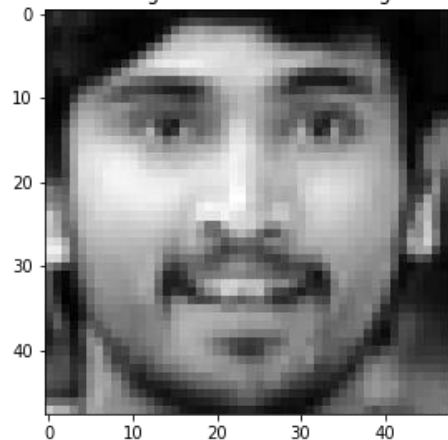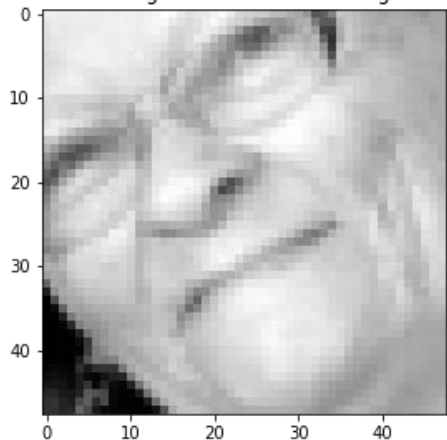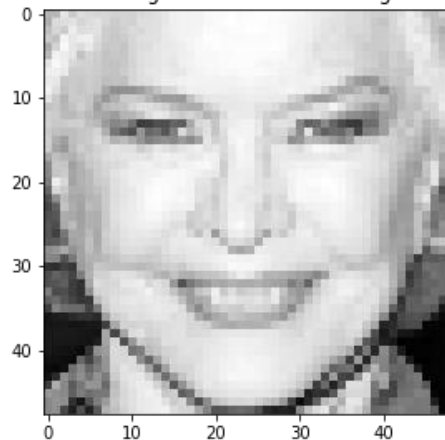
Visualizing Train Data Prediction

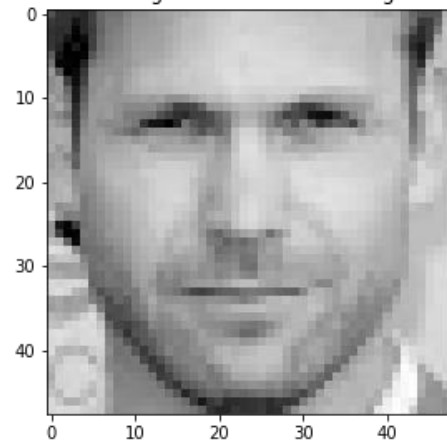Predicted Age is 29.0 and Actual Age is 26

Predicted Age is 63.0 and Actual Age is 61
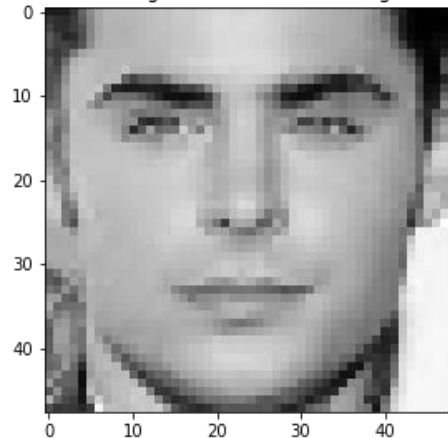

Predicted Age is 59.0 and Actual Age is 66

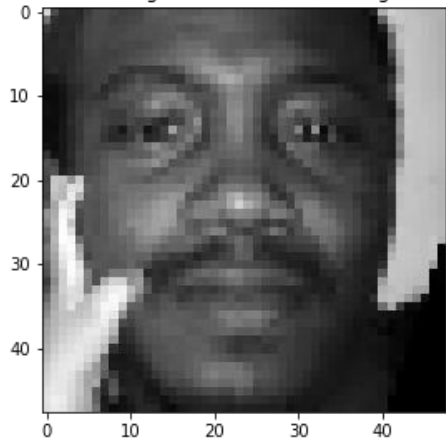Predicted Age is 36.0 and Actual Age is 35
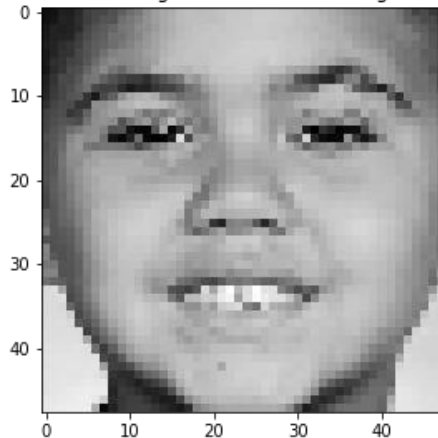
Visualizing Test Data Prediction

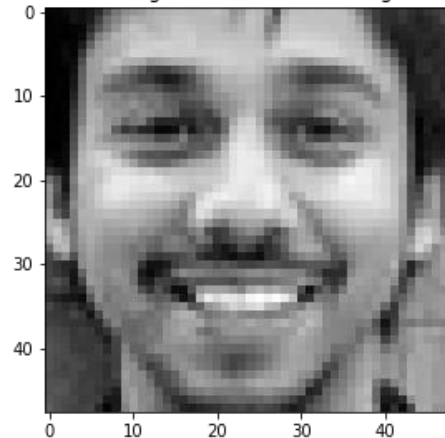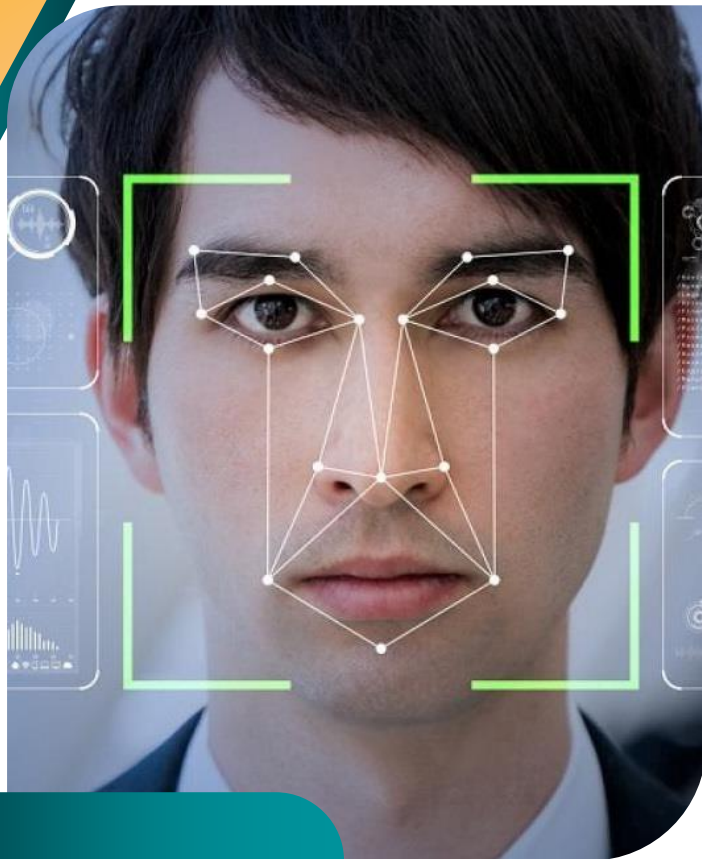Predicted Age is 24.0 and Actual Age is 27 | Predicted Age is 38.0 and Actual Age is 39 | Predicted Age is 6.0 and Actual Age is 8 | Predicted Age is 28.0 and Actual Age is 40

Future **Work**

- Improvement the models.
- Wok in Arabic People image.
- Add more details like hobbies & interests.

السعودية للبيانات
والذكاء الاصطناعي
Saudi Data & AI Authority

"Thank you SADAIA for havaing me in this bootcamp T5"

THANK YOU

Any Questions?