

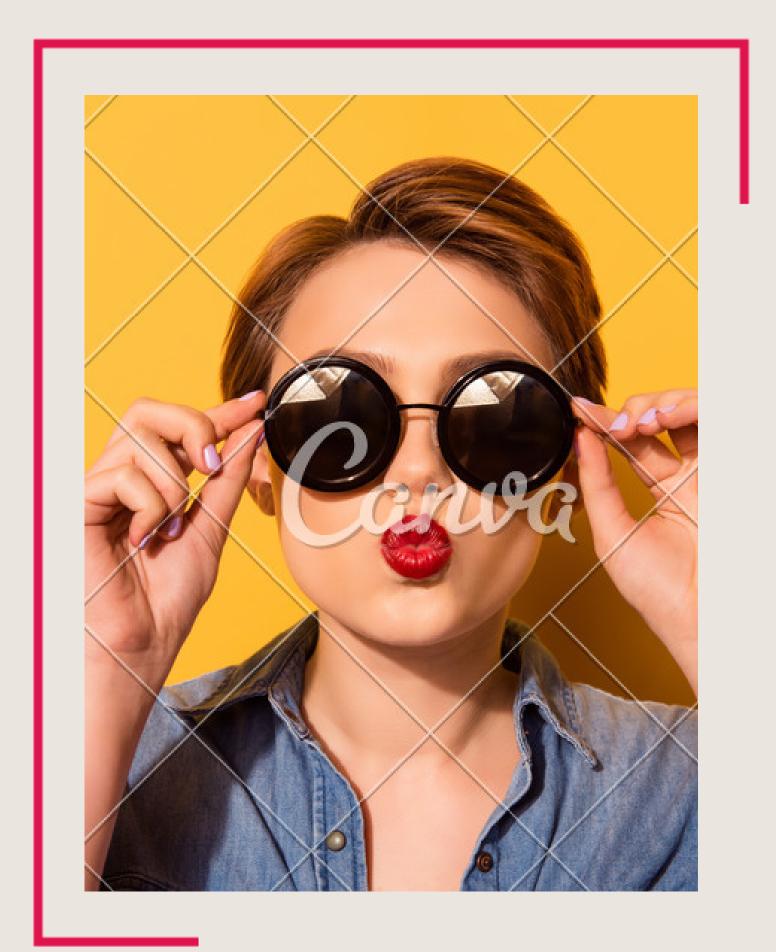
SDAIA T5 BOOTCAMP

fashion classification project

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Introduction and main goal

The main goal of this project is to build a classification model that classify the clothes by input the images of the clothes



- why don't we create our '< own DATASET?

WE WEB Scraped these web sites









ROWS AND FEATURES

Each row is a grayscale image, each image is 28 pixels in height and 28 pixels in width, for a total of 784 pixels in total.

WHAT ARE THE VALUES?

The pixel-values are integers between 0 and 255, Each value is the darkness of the pixel



The input image before and after manipulation

we reshaped the images to minimize the features

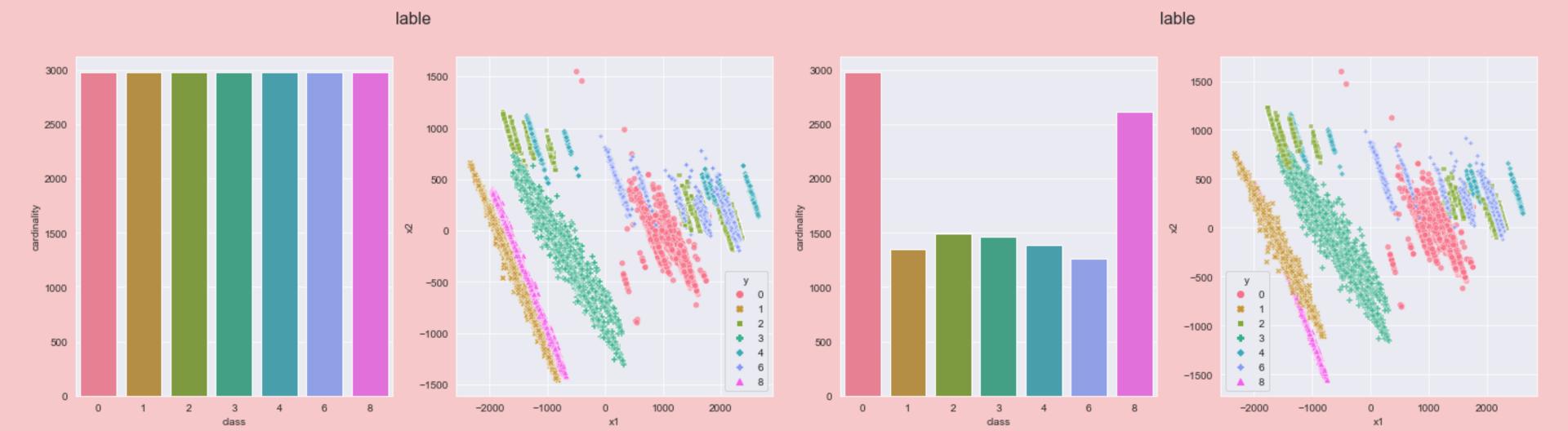


Our DataSet labels /

The labels are:

- 0 T-shirt/top
- 1 Trouser
- 2 Pullover
- 3 Dress
- 4 Coat
- 5 Sandal
- 6 Shirt
- 7 Sneaker
- 8 Bag
- 9 Ankle boot





2

3

The **DATASET** after balancing it

-2000

x1

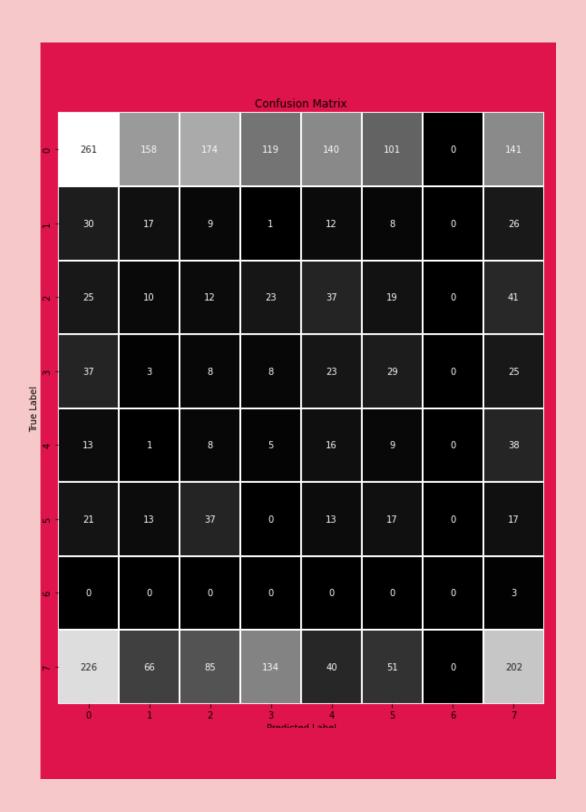
2



-2000

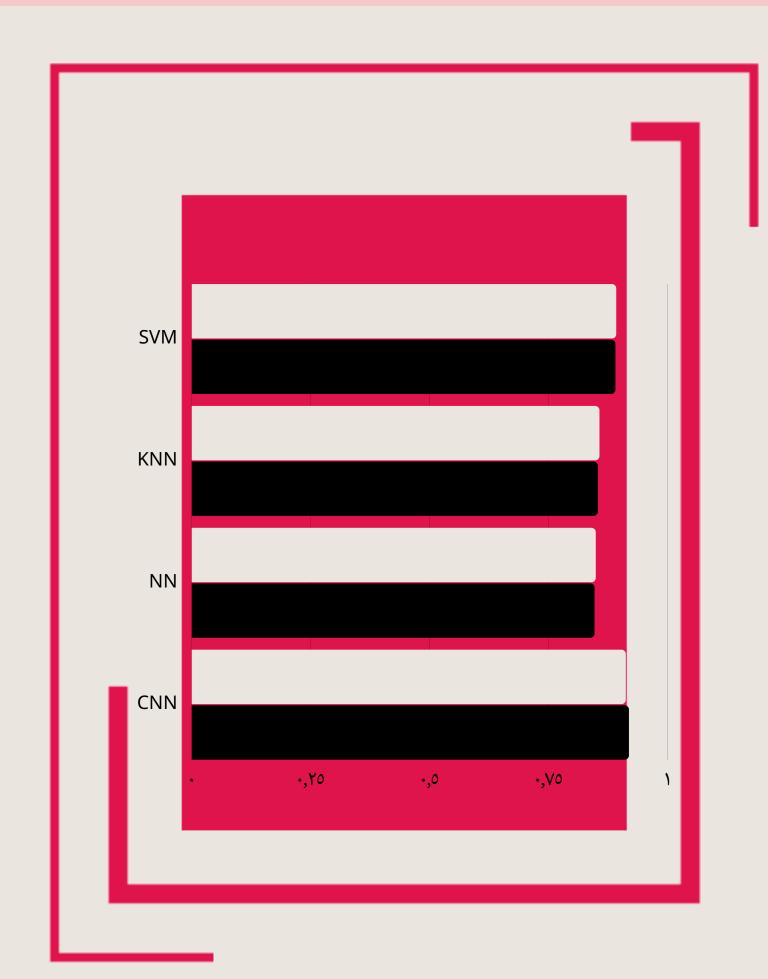
-1000

2000



Confusion matrix

This plot shows the true values and the predited values



The models comparasion (

THE RESULTS OF VALIDATION AND TEST 1-SVM (0.8918-0.8901)

2-KNN (0.8566-0.8532)

3-NN (0.84880-0.84619)

4-CNN (0.91200-0.91850)

conclusion and Future Works

to conclude our work...

it appears that CNN had the best result with the highest accuracy with 0.918

to improve our work

- 1- building a model takes Higher resolution images.
- 2-building a model takes colorful images.
- 3-try more models





Thanks for your time!

M SQUARE ARE LOOKING FORWARD TO HEAR FROM YOU;)



" WHEN IN DOUBT, WEAR BLACK"

Quite..