REPORT

DEPENDENCIES:

Software

     •   Jupyter Notebook

     •   Google Colab

PACKAGES AND LIBRARIES

* OS
* CV2
* Keras
* Numpy
* TensorFlow
* Matplotlib
* Argparse
* EfficientnetB0

STEPS INVOLVED IN PROJECT:

Step 1) Importing all the libraries and packages required for the code to run and also import dataset

Step2) Splitting the dataset into target and training data

Step3) Preprocessing the images in the dataset i.e. converting color images into black and white using map function

Step4) Performing DATA AUGUMENTATION

Step5) Using one hot encoding to increase the number of neurons

Step6) Specifying the Architecture of the model (using efficient net)

Step7) Compiling the model

Step8) Training the model by taking batch size 30 and epochs 30

Step9) Testing the model by localizing the ageing signs with an accurate percentage

 STEPS TO RUN THE CODE:

• Download the zip folder

• Extract the zip folder

• open the Jupyter Notebook

• Run the ‘**SignsAge.ipynb**’ jupyter notebook

• Load the respective models and their corresponding weights

• Change the ‘**image\_path**’ variable to the path of the image file that you want

to test on

 • Test on the image file