VERZEO

Major Project

Detection of Wrinkles, dark spots and puffy eyes

Project Done by

Batch 17

MANUAL

OBJECTIVE

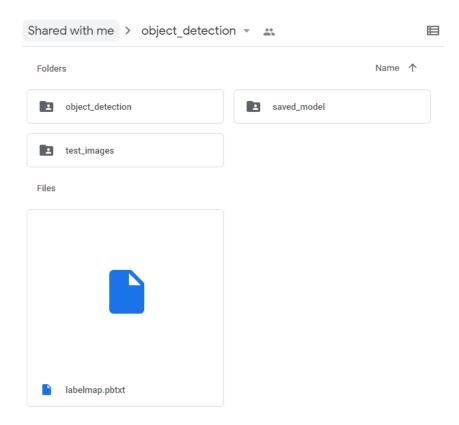
To build a Machine Learning model that localises and highlights the signs of ageing. Signs of ageing include Dark spots, wrinkles, puffy eyes, uneven skin tone, etc.

PROBLEM DESCRIPTION

Identification of potential signs of ageing – wrinkles, dark spots and wrinkles. Train model and find accuracy of the model.

INSTRUCTIONS

Upload the dataset(s) in your Google Drive.



Mount the drive

```
[ ] 1 from google.colab import drive 2 drive.mount('/content/drive',force_remount='True')
```

Install necessary dependencies

Import libraries

```
[ ] 1 import numpy as np
2 import os
3 import six.moves.urllib as urllib
4 import sys
5 import tarfile
6 import tensorflow as tf
7 import zipfile
8
9 from collections import defaultdict
10 from io import StringIO
11 from matplotlib import pyplot as plt
12 from PIL import Image
13 from Ipython.display import display
14
15 from object detection.utils import ops as utils_ops
16 from object detection.utils import label_map_util
17 from object detection.utils import visualization_utils as vis_util
```

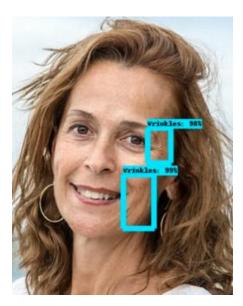
Verify path



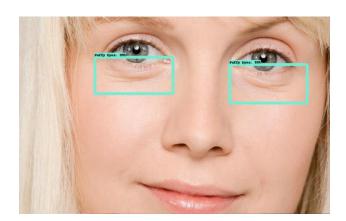
PREDICTION AND ACCURACY OF DATA

Wrinkles

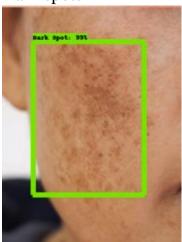


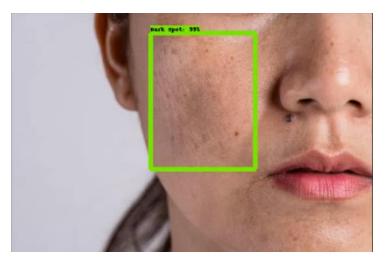


Puffy eyes



Dark spots





A combination of all attributes

