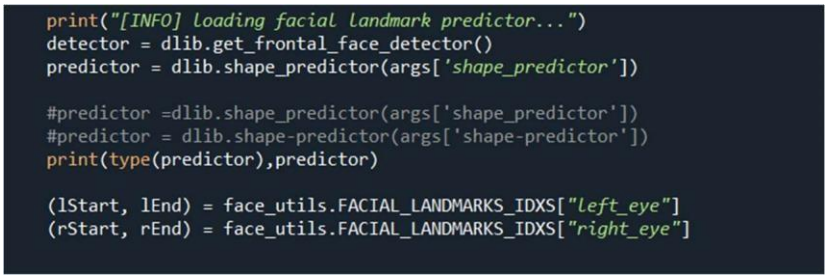
Smart Internz

SMARTBRIDGE
Let's Bridge the Gap
a Veranda Enterprise

Data Collection and Preprocessing Phase

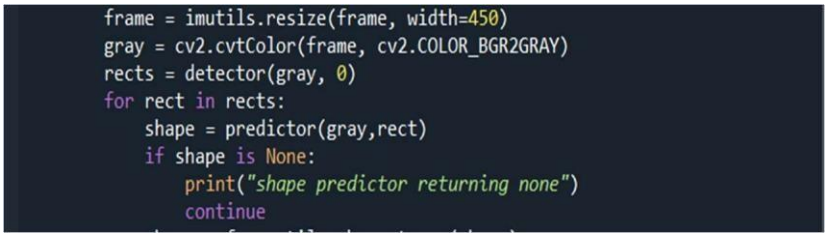
Section	Description
Data Preprocessing Code Sc reenshots	
Data Overview	
Loading Data	


```
print("[INFO] loading facial landmark predictor...")
detector = dlib.get_frontal_face_detector()
predictor = dlib.shape_predictor(args['shape_predictor'])

#predictor =dlib.shape_predictor(args['shape_predictor'])
#predictor = dlib.shape-predictor(args['shape-predictor'])
print(type(predictor),predictor)

(lStart, lEnd) = face_utils.FACIAL_LANDMARKS_IDXS["left_eye"]
(rStart, rEnd) = face_utils.FACIAL_LANDMARKS_IDXS["right_eye"]
```

Date	15 September 2024
Team ID	739753
Project Title	Strain analysis based on eye blinking
Maximum Marks	6 Marks

Preprocessing Template

The images will be preprocessed by resizing, normalizing, augmenting, denoising, adjusting contrast, detecting edges, converting color space, cropping, batch normalizing, and whitening data. These steps will enhance data quality, promote model generalization, and improve convergence during neural network training, ensuring robust and efficient performance across various computer vision tasks.

Resizing	
Color Space Conversion