



Data Collection and Preprocessing Phase

Date	21 October 2024		
Team ID	739879		
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.

Section	Description	Description				
Data Preprocessing Coo	le Screenshots					
Data Overview	output1 output2 requirements shape_predictor.dat	05-11-2024 11:47 05-11-2024 11:47 04-11-2024 12:45 03-11-2024 14:37	MP3 File MP3 File Text Document DAT File	53 KB 46 KB 1 KB 97,358 KB		
Loading Data	<pre>detector = dl predictor = d #predictor =d #predictor = d print(type(predictor) (1Start, 1End)</pre>	<pre>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"]</pre>				



