



Data Collection and Preprocessing Phase

Date	11 July 2024	
Team ID	SWTID1720012105	
Project Title	WarLens: Transfer Learning for Event Classification in Conflict Zones	
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
Data Overview	We are using a Kaggle dataset name war events with over 84,151,000 images which are having various types like fire,combat, DestroyedBuildings ,humanatarian ai and military vehicles and weapons.
Resizing	Resize images to a specified target size.
Normalization	Normalize pixel values to a specific range.
Data Augmentation	Apply augmentation techniques such as flipping, rotation, shifting, zooming, or shearing.
Denoising	Apply denoising filters to reduce noise in the images.
Edge Detection	Apply edge detection algorithms to highlight prominent edges in the images.





Color Space Conversion	Convert images from one color space to another.		
Image Cropping	Crop images to focus on the regions containing objects of interest.		
Batch Normalization	Apply batch normalization to the input of each layer in the neural network.		
Data Preprocessing Code	Screenshots		
Loading Data	Smartinternz_Project_Team_Kushagralpynb fr File Edit View insert Runtime Tods Help Last_sered_still_Duby + Code + Text - Co	Connect + + Gemini A	
Resizing		Pauled : Comment #: Share & K Connect + Gemini A	
Normalization		Connect # Share to the Connect # Germini A	











