



Data Collection and Preprocessing Phase

Date	07 July 2024
Team ID	SWTID1720158583
Project Title	Vitamin Vision: Unveiling The Spectrum Of Nutrient Detection
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			
	ivame	Date modified	туре	Size
	vitaminAtr	07-07-2024 08:40	File folder	
	vitaminBtr	07-07-2024 09:35	File folder	
	vitaminCtr	07-07-2024 08:40	File folder	
Data Overview	vitaminDtr	07-07-2024 08:40	File folder	
	vitaminEtr vitaminEtr	07-07-2024 08:40	File folder	
Resizing	target_size=(





Normalization	rescale=1./255,	
Data Augmentation	<pre>shear_range=0.2, zoom_range=0.2, horizontal_flip=True, validation_split=0.2</pre>	
Data Preprocessing Code Screenshots		
Loading Data	<pre>train_generator = train_datagen.flow_from_directory(</pre>	
Resizing	<pre>target_size=(224, 224), batch_size=32,</pre>	
Normalization	<pre>train_datagen = ImageDataGenerator(rescale=1./255,</pre>	
Data Augmentation	<pre>shear_range=0.2, zoom_range=0.2, horizontal_flip=True, validation_split=0.2</pre>	