



Data Collection and Preprocessing Phase

Date	June 2024
Team ID	Team-740101
Project Title	Power Consumption Analysis For Households
Maximum Marks	6 Marks

PreparationTemplate

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	There are many popular open sources for collecting the data. Eg: kaggle.com, UCI repository, etc. In this project we have used .csv data.	
Data Preparation	These are the general steps of pre-processing the data before using it for machine learning	
Handling missing values	We use Handling missing values For checking the null values	
Data Preparation		
Collect the dataset	Please refer to the link given below to download the dataset. Link: household power consumption.txt	
Importing the libraries	<pre>import pandas as pd import numpy as np import seaborn as sns import matplotlib.pyplot as plt import warnings</pre>	





Loading Data	<pre>dataset = pd.read_csv("household_power_consumption.txt",delimiter=';',low_memory=False) dataset.head()</pre>
Handling missing values	dataset.isnull().sum() Global_active_power