

Data Collection and Preprocessing Phase

Date	8 July 2024
Team ID	SWTID1720078167
Project Title	Rice Type Classification using CNN
Maximum Marks	2 Marks

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
Dataset (Kaggle)	Missing Images	Moderate	Check for missing or broken links in the dataset and re-download any missing images. Use a script to verify the integrity of each image file.
Dataset (Kaggle)	Image Size Inconsistency	High	Resize all images to a standard size (e.g., 224x224 pixels) to ensure uniformity for model training. Use OpenCV or PIL for resizing.
Dataset (Kaggle)	Image Quality (Blurriness, Noise)	Moderate	Apply denoising filters (e.g., Gaussian Blur) to improve image quality. Detect and remove

			or enhance blurry images using sharpness metrics.
Dataset (Kaggle)	Duplicate Images	Low	Identify and remove duplicate images using hash functions or similarity metrics. Use libraries like imagehash or scikit-image for detection.
Dataset (Kaggle)	Color Variations	Low	Normalize color distributions by converting images to a uniform color space (e.g., HSV) and applying histogram equalization.